



# TADBP Polyclonal Antibody

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| Catalog No         | BYab-07303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reactivity         | Human;Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applications       | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Name          | TARDBP TDP43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Protein Name       | TAR DNA-binding protein 43 (TDP-43)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen          | Synthesized peptide derived from human protein . at AA range: 41-90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity        | TADBP Polyclonal Antibody detects endogenous levels of protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Formulation        | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dilution           | WB 1:500-2000 ELISA 1:5000-20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Synonyms           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Observed Band      | 45kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cell Pathway       | Nucleus . Cytoplasm . Cytoplasm, Stress granule . Mitochondrion . Continuously travels in and out of the nucleus (PubMed:18957508). Localizes to stress granules in response to oxidative stress (PubMed:19765185). A small subset localizes in mitochondria (PubMed:28794432). .                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tissue Specificity | Ubiquitously expressed. In particular, expression is high in pancreas, placenta, lung, genital tract and spleen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Function           | disease:Defects in TARDBP are a cause of amyotrophic lateral sclerosis type 10 (ALS10) [MIM:612069]. ALS is a neurodegenerative disorder affecting upper and lower motor neurons and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of ALS is likely to be multifactorial, involving both genetic and environmental factors. TARDBP is the primary component of ubiquitin-positive inclusion bodies found in ALS and in frontotemporal lobar degeneration with ubiquitin-positive inclusions (FTLDU).,function:DNA and RNA-binding protein which regulates transcription and splicing. Involved in the regulation of CFTR splicing. It promotes CFTR exon |

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|                                  | 9 skipping by binding to the UG repeated motifs in the polymorphic region near the 3'-splice site of this exon. The resulting aberrant splicing is associated with pathological features typical o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Background</b>                | TAR DNA binding protein(TARDBP) Homo sapiens HIV-1, the causative agent of acquired immunodeficiency syndrome (AIDS), contains an RNA genome that produces a chromosomally integrated DNA during the replicative cycle. Activation of HIV-1 gene expression by the transactivator Tat is dependent on an RNA regulatory element (TAR) located downstream of the transcription initiation site. The protein encoded by this gene is a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. In addition, this protein regulates alternate splicing of the CFTR gene. A similar pseudogene is present on chromosome 20. [provided by RefSeq, Jul 2008], |
| <b>matters needing attention</b> | Avoid repeated freezing and thawing!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Usage suggestions</b>         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Products Images

