



# USP45 Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-19241                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                   |
| <b>Reactivity</b>         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>       | WB;ELISA                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>          | USP45                                                                                                                                                                                                                                                                                                 |
| <b>Protein Name</b>       | Ubiquitin carboxyl-terminal hydrolase 45                                                                                                                                                                                                                                                              |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human USP45. AA range:301-350                                                                                                                                                                                                     |
| <b>Specificity</b>        | USP45 Polyclonal Antibody detects endogenous levels of USP45 protein.                                                                                                                                                                                                                                 |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                               |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                 |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.                                                                                                                                                                                                                   |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                  |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>           | USP45; Ubiquitin carboxyl-terminal hydrolase 45; Deubiquitinating enzyme 45; Ubiquitin thioesterase 45; Ubiquitin-specific-processing protease 45                                                                                                                                                     |
| <b>Observed Band</b>      | 90kD                                                                                                                                                                                                                                                                                                  |
| <b>Cell Pathway</b>       | Photoreceptor inner segment . Cytoplasm . Nucleus .                                                                                                                                                                                                                                                   |
| <b>Tissue Specificity</b> | Widely expressed. High expression is detected in the cerebellum. In the eye, it is expressed at high levels in the optic nerve, sclera and retina, with relatively low levels in the choroid, lens and retinal pigment epithelium (PubMed:30573563).                                                  |
| <b>Function</b>           | catalytic activity:Ubiquitin C-terminal thioester + H(2)O = ubiquitin + a thiol.,similarity:Belongs to the peptidase C19 family.,similarity:Contains 1 UBP-type zinc finger.,tissue specificity:Broadly expressed, with highest levels in ovary, skeletal muscle and spleen.,                         |
| <b>Background</b>         | The protein encoded by this gene is a deubiquitylase that binds ERCC1, the catalytic subunit of the XPF-ERCC1 DNA repair endonuclease. This endonuclease is a critical regulator of DNA repair processes, and the deubiquitylase activity of the encoded protein is important for maintaining the DNA |

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repair ability of XPF-ERCC1. [provided by RefSeq, Sep 2016],

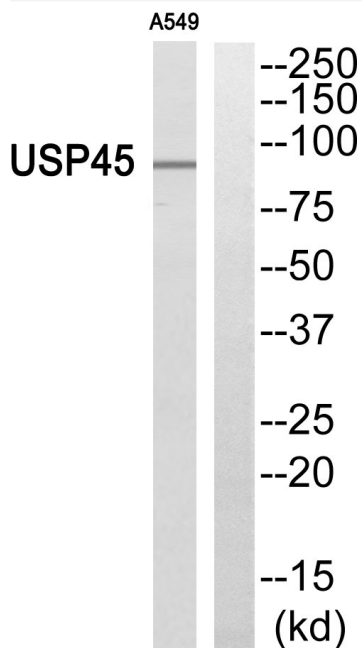
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western blot analysis of USP45 Antibody. The lane on the right is blocked with the USP45 peptide.