



# CIC Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-06552                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity         | Human;Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applications       | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Name          | CIC KIAA0306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protein Name       | Protein capicua homolog                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Immunogen          | Synthesized peptide derived from human protein . at AA range: 550-630                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity        | CIC 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      | 176kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cell Pathway       | Nucleus .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tissue Specificity | Expressed in fetal brain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Function           | function:Transcriptional repressor which may play a role in development of the central nervous system (CNS).,miscellaneous:Expressed in medulloblastoma, a pediatric brain tumor which may arise from the granule cell lineage.,similarity:Contains 1 HMG box DNA-binding domain.,subunit:Interact with ATXN1 and ATXN1L.,tissue specificity:Expressed in fetal brain.,                                                                                                                        |
| Background         | The protein encoded by this gene is an ortholog of the Drosophila melanogaster capicua gene, and is a member of the high mobility group (HMG)-box superfamily of transcriptional repressors. This protein contains a conserved HMG domain that is involved in DNA binding and nuclear localization, and a conserved C-terminus. Studies suggest that the N-terminal region of this protein interacts with Atxn1 (GeneID:6310), to form a transcription repressor complex, and in vitro studies |

Nanjing BYabscience technology Co.,Ltd



suggest that polyglutamine-expansion of ATXN1 may alter the repressor activity of this complex. Mutations in this gene have been associated with oligodendrogliomas (PMID:21817013). In addition, translocation events resulting in gene fusions of this gene with both DUX4 (GeneID:100288687) and FOXO4 (GeneID:4303) have been associated with round cell sarcomas. There are multiple pseudogenes of this gene found on chromosomes

**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