



# CDC45 Polyclonal Antibody

|                           |   |
|---------------------------|---|
| <b>Catalog No</b>         | BYab-05178  |
| <b>Isotype</b>            | IgG   |
| <b>Reactivity</b>         | Human;Mouse   |
| <b>Applications</b>       | WB;ELISA  |
| <b>Gene Name</b>          | CDC45 CDC45L CDC45L2 UNQ374/PRO710  |
| <b>Protein Name</b>       | Cell division control protein 45 homolog (PORC-PI-1)  |
| <b>Immunogen</b>          | Synthesized peptide derived from human protein . at AA range: 90-170  |
| <b>Specificity</b>        | CDC45 Polyclonal Antibody detects endogenous levels of protein.   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 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>           | WB 1:500-2000 ELISA 1:5000-20000  |
| <b>Concentration</b>      | 1 mg/ml   |
| <b>Purity</b>             | ≥90%  |
| <b>Storage Stability</b>  | -20°C/1 year  |
| <b>Synonyms</b>           |   |
| <b>Observed Band</b>      | 62kD  |
| <b>Cell Pathway</b>       | Cytoplasm. Nucleus.   |
| <b>Tissue Specificity</b> | Widely expressed, highest levels are found in adult testis and thymus and in fetal liver.   |
| <b>Function</b>           | developmental stage:Transcript peaks at G1-S transition, but total protein remains constant throughout the cell cycle. Expressed in multiple tissues during embryogenesis, including neural crest-derived structures.,function:Required for initiation of chromosomal DNA replication.,similarity:Belongs to the CDC45 family.,subunit:Associated with ORC2L.,tissue specificity:Widely expressed, highest levels are found in adult testis and tyhmus and in fetal liver., |
| <b>Background</b>         | The protein encoded by this gene was identified by its strong similarity with Saccharomyces cerevisiae Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in  |

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eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in Xenopus suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013],

**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**