



CDC45 Monoclonal Antibody

Catalog No	BYmab-05178
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	CDC45 CDC45L CDC45L2 UNQ374/PRO710
Protein Name	Cell division control protein 45 homolog (PORC-PI-1)
Immunogen	Synthesized peptide derived from human protein . at AA range: 90-170
Specificity	CDC45 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	62kD
Cell Pathway	Cytoplasm. Nucleus.
Tissue Specificity	Widely expressed, highest levels are found in adult testis and thymus and in fetal liver.
Function	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.,
Background	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.

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