Best Tools for immunology Research

CDC45 Polyclonal Antibody

Catalog No :	YN0304
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	CDC45
Fields :	>>Cell cycle
Gene Name :	CDC45 CDC45L CDC45L2 UNQ374/PRO710
Protein Name :	Cell division control protein 45 homolog (PORC-PI-1)
Human Gene Id :	8318
Human Swiss Prot No :	O75419
Mouse Swiss Prot No :	Q9Z1X9
Immunogen :	Synthesized peptide derived from human protein . at AA range: 90-170
Specificity :	CDC45 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band :	62kD
Cell Pathway :	Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;
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 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],
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.,
Subcellular Location :	Cytoplasm. Nucleus.
Expression :	Widely expressed, highest levels are found in adult testis and thymus and in fetal liver.

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