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CDC45L Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CDC45L.
Catalog # AT1467a

Product Information

Application	WB, IF, E
Primary Accession	O75419
Other Accession	BC006232
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3F11-1F3
Calculated MW	65569

Additional Information

Gene ID	8318
Other Names	Cell division control protein 45 homolog, PORC-PI-1, CDC45, CDC45L, CDC45L2
Target/Specificity	CDC45L (AAH06232, 1 a.a. ~ 566 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CDC45L Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

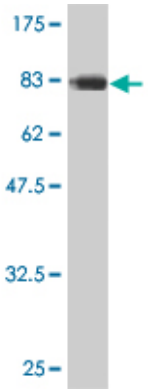
Background

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. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.

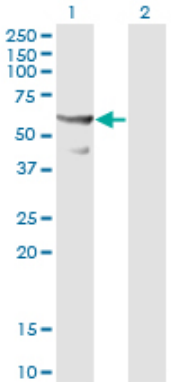
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Human Timeless and Tipin stabilize replication forks and facilitate sister-chromatid cohesion. Leman AR, et al. J Cell Sci, 2010 Mar 1. PMID 20124417.The DNA unwinding element binding protein DUE-B interacts with Cdc45 in preinitiation complex formation. Chowdhury A, et al. Mol Cell Biol, 2010 Mar. PMID 20065034.Assembly of the Cdc45-Mcm2-7-GINS complex in human cells requires the Ctf4/And-1, RecQL4, and Mcm10 proteins. Im JS, et al. Proc Natl Acad Sci U S A, 2009 Sep 15. PMID 19805216.Genetic variants in apoptosis and immunoregulation-related genes are associated with risk of chronic lymphocytic leukemia. Enjuanes A, et al. Cancer Res, 2008 Dec 15. PMID 19074885.

Images

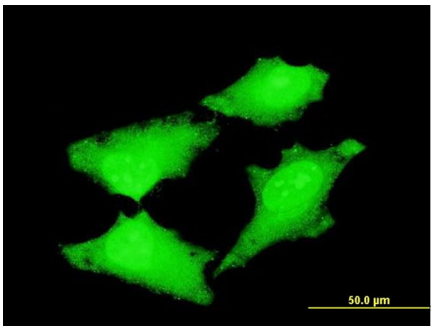


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (88 KDa) .

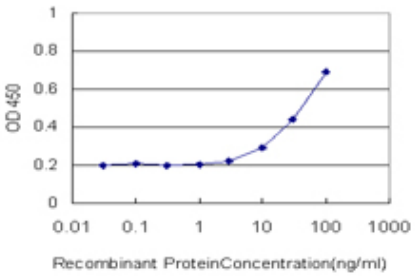


Western Blot analysis of CDC45L expression in transfected 293T cell line by CDC45L monoclonal antibody (M01), clone 3F11-1F3.

Lane 1: CDC45L transfected lysate(65.6 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to CDC45L on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged CDC45L is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.