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MND1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18096b

Product Information

Application	WB, E
Primary Accession	Q9BWT6
Other Accession	NP_115493.1
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38300
Calculated MW	23753
Antigen Region	174-200

Additional Information

Gene ID	84057
Other Names	Meiotic nuclear division protein 1 homolog, MND1 {ECO:0000312|EMBL:EAX049641}
Target/Specificity	This MND1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 174-200 amino acids from the C-terminal region of human MND1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MND1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MND1 {ECO:0000312|EMBL:EAX04964.1}
Function	Required for proper homologous chromosome pairing and efficient cross-over and intragenic recombination during meiosis (By similarity).

Stimulates both DMC1- and RAD51-mediated homologous strand assimilation, which is required for the resolution of meiotic double- strand breaks.

Cellular Location Nucleus.

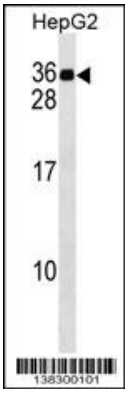
Background

The product of the MND1 gene associates with HOP2 (MIM 608665) to form a stable heterodimeric complex that binds DNA and stimulates the recombinase activity of RAD51 (MIM 179617) and DMC1 (MIM 602721) (Chi et al., 2007 [PubMed 17639080]). Both the MND1 and HOP2 genes are indispensable for meiotic recombination.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Chi, P., et al. Genes Dev. 21(14):1747-1757(2007)
Enomoto, R., et al. J. Biol. Chem. 281(9):5575-5581(2006)
Tsubouchi, H., et al. Mol. Cell. Biol. 22(9):3078-3088(2002)

Images



MND1 Antibody (C-term) (Cat. #AP18096b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the MND1 antibody detected the MND1 protein (arrow).

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