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HORMAD1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18581c

Product Information

Application	WB, E
Primary Accession	Q86X24
Other Accession	D3ZWE7, E2IUK4, Q9D5T7, Q4R8B9, Q2KIY6, NP_115508.2
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, Pig, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37327
Calculated MW	45200
Antigen Region	161-189

Additional Information

Gene ID	84072
Other Names	HORMA domain-containing protein 1, Cancer/testis antigen 46, CT46, Newborn ovary HORMA protein, HORMAD1, NOHMA
Target/Specificity	This HORMAD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 161-189 amino acids from the Central region of human HORMAD1.
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	HORMAD1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HORMAD1 (HGNC:25245)
Function	Plays a key role in meiotic progression. Regulates 3 different functions during meiosis: ensures that sufficient numbers of processed DNA

	double-strand breaks (DSBs) are available for successful homology search by increasing the steady-state numbers of single- stranded DSB ends. Promotes synaptonemal-complex formation independently of its role in homology search. Plays a key role in the male mid-pachytene checkpoint and the female meiotic prophase checkpoint: required for efficient build-up of ATR activity on unsynapsed chromosome regions, a process believed to form the basis of meiotic silencing of unsynapsed chromatin (MSUC) and meiotic prophase quality control in both sexes.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q9D5T7}. Chromosome {ECO:0000250|UniProtKB:Q9D5T7}. Note=Preferentially localizes to unsynapsed or desynapsed chromosomal regions during the prophase I stage of meiosis. TRIP13 is required for depletion from synapsed chromosomes. The expression of the phosphorylated form at Ser- 377 is restricted to unsynapsed chromosomal regions (By similarity) {ECO:0000250|UniProtKB:Q9D5T7}
Tissue Location	Testis-specific. Over-expressed in carcinomas.

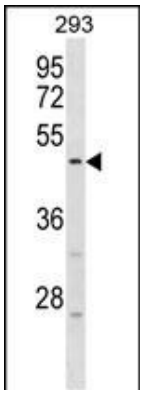
Background

HORMAD1 may monitor and regulate pairing, synapsis, or recombination between homologous chromosomes during meiosis (By similarity).

References

Chen, Y.T., et al. Cancer Immun. 5, 9 (2005) :
Pangas, S.A., et al. Gene Expr. Patterns 5(2):257-263(2004)
Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)

Images



HORMAD1 Antibody (Center) (Cat. #AP18581c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the HORMAD1 antibody detected the HORMAD1 protein (arrow).

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