10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-HORMAD1 Antibody

Rabbit polyclonal antibody to HORMAD1
Catalog # AP59881

Product Information

Application	WB
Primary Accession	Q86X24
Reactivity	Human, Mouse, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45200

Additional Information

Gene ID	84072
Other Names	NOHMA; HORMA domain-containing protein 1; Cancer/testis antigen 46; CT46; Newborn ovary HORMA protein
Target/Specificity	Recognizes endogenous levels of HORMAD1 protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

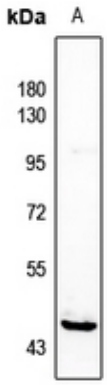
Name	HORMAD1 (HGNC:25245)
Function	Plays a key role in meiotic progression. Regulates 3 different functions during meiosis: ensures that sufficient numbers of processed DNA double-strand breaks (DSBs) are available for successful homology search by increasing the steady-state numbers of single- stranded 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

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human HORMAD1. The exact sequence is proprietary.

Images



Western blot analysis of HORMAD1 expression in mouse kidney (A) whole cell lysates.