

Anti-HORMAD1 Antibody

Rabbit polyclonal antibody to HORMAD1 Catalog # AP59881

Product Information

Application WB Primary Accession Q86X24

Reactivity Human, Mouse, Monkey

HostRabbitClonalityPolyclonalCalculated MW45200

Additional Information

Gene ID 84072

Other Names NOHMA; HORMA domain-containing protein 1; Cancer/testis antigen 46;

CT46; Newborn ovary HORMA protein

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the

C-term region of human HORMAD1. The exact sequence is proprietary.

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 (<u>HGNC:25245</u>)

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}

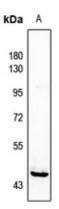
Tissue Location

Testis-specific. Over-expressed in carcinomas.

Background

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Images



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

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