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# Anti-HORMAD1 Antibody

Catalog # AP59881

## Product Information

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| **Application** | WB, IF/IC |
| **Primary Accession** | Q86X24 |
| **Reactivity** | Human, Mouse, Mk |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 45200 |

## Additional Information

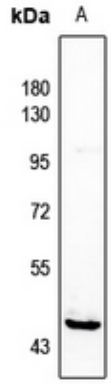
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|---|---|
| **Gene ID** | 84072 |
| **Other Names** | NOHMA; HORMA domain-containing protein 1; Cancer/testis antigen 46; CT46; Newborn ovary HORMA protein |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human HORMAD1. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

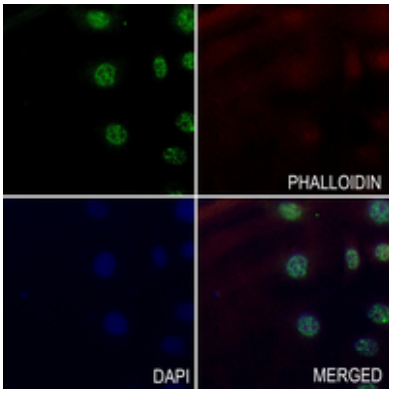
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|---|---|
| **Name** | HORMAD1 ( HGNC:25245) |
| **Function** | Plays a key role in meiotic progression. Regulates 3 different functions during meiosis: ensures that sufficient numbers of processed DNA double-strand breaks (DSBs) are available for 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. |

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| | 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. |

## Images




Western blot analysis of HORMAD1 expression in mouse kidney (A) whole cell lysates. (Predicted band size: 45 kD; Observed band size: 45 kD)




Immunofluorescent analysis of HORMAD1 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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