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# HORMAD1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18581c

## Product Information

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

## Additional Information

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| **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

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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 |

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| | 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. |

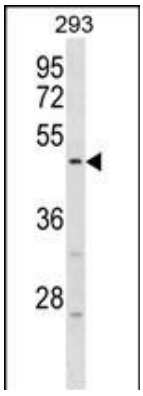
## Background

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).