

HORMAD1 Polyclonal antibody

Catalog Number: 28719-1-AP

1 Publications

Basic Information

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| Catalog Number: 28719-1-AP | GenBank Accession Number: BC047406 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 700 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 84072 | Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 |
| Source: Rabbit | Full Name: HORMA domain containing 1 | |
| Isotype: IgG | Calculated MW: 45 kDa | |
| Immunogen Catalog Number: AG29859 | Observed MW: 45 kDa | |

Applications

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| Tested Applications: IHC, WB, ELISA | Positive Controls: |
| Cited Applications: IHC, WB | WB : rat testis tissue, mouse testis tissue |
| Species Specificity: Human, mouse, rat | IHC : human breast cancer tissue, |
| Cited Species: mouse | |

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

HORMA domain-containing proteins regulate interactions between homologous chromosomes (homologs) during meiosis in a wide range of eukaryotes [PMID:21079677]. They are also implicated in other processes related to crossover formation, including DSB formation, inhibition of promiscuous formation of the synaptonemal complex (SC), and the meiotic prophase checkpoint that monitors both DSB processing and SCs [PMID:19851446]. HORMAD1 first accumulates on the chromosomes during the leptotene to zygotene stages of meiotic prophase I. As germ cells progress into the pachytene stage, HORMAD1 disappears from the synapsed chromosomal regions. However, once the chromosomes desynapse during the diplotene stage, HORMAD1 again accumulates on the chromosome axis of the desynapsed homologs [PMID:19686734]. HORMAD1 exists as various isoform and the range of molecular weight of isoforms are about 36-45 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|---------|-------------|
| Takao Takiyama | 35907977 | Sci Rep | IHC, WB |

Storage

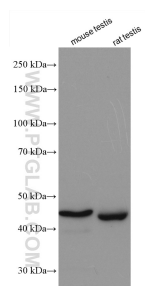
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

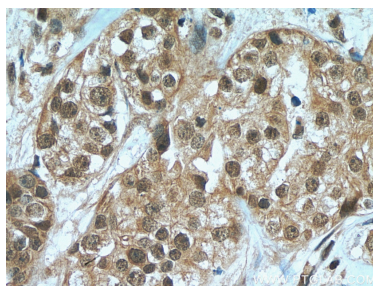
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28719-1-AP (HORMAD1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 28719-1-AP (HORMAD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).