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# HORMAD1 Monoclonal antibody

Catalog Number:67091-1-Ig Featured Product 1 Publications

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## Basic Information

Catalog Number:
67091-1-Ig

Size:
2000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG28316

GenBank Accession Number:
BC047406

GeneID (NCBI):
84072

UNIPROT ID:
Q86X24

Full Name:
HORMA domain containing 1

Calculated MW:
45 kDa

Observed MW:
50-55 kDa

Purification Method:
Protein G purification

CloneNo.:
2D7E12

Recommended Dilutions:
WB 1:1000-1:5000
IHC 1:200-1:800
IF 1:50-1:500

## Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
Human, mouse

Cited Species:
human

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

Positive Controls:

WB : human testis tissue, mouse testis tissue

IHC : human breast cancer tissue,

IF : HepG2 cells,

## Background Information

HORMA domain-containing proteins regulate interactions between homologous chromosomes (homologs) during meiosis in a wide range of eukaryotes [PMID:21079677]. They 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].

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Kang Liu | 35347116 | Cell Death Discov | WB,IHC |

## 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

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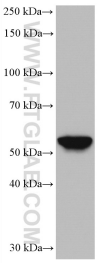
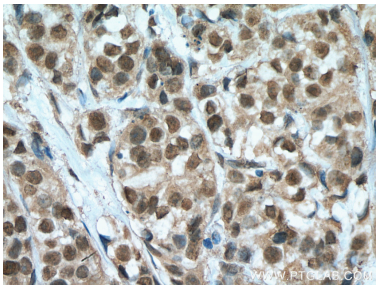
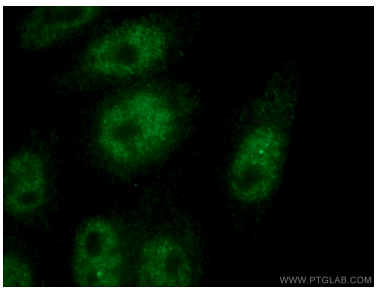
## Selected Validation Data




human testis tissue were subjected to SDS PAGE followed by western blot with 67091-1-Ig (HORMAD1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.




Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67091-1-Ig (HORMAD1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 67091-1-Ig (HORMAD1 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).