

For Research Use Only

# HORMAD1 Monoclonal antibody, PBS Only

Catalog Number: 67091-1-PBS

Featured Product



## Basic Information

### Catalog Number:

67091-1-PBS

### Size:

100ug , Concentration: 1000 µg/ml by Nanodrop;

### 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

## Applications

### Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

### Species Specificity:

Human, mouse

## 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].

## Storage

### Storage:

Store at -80°C.

### Storage Buffer:

PBS Only

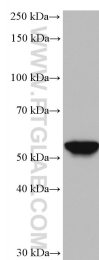
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

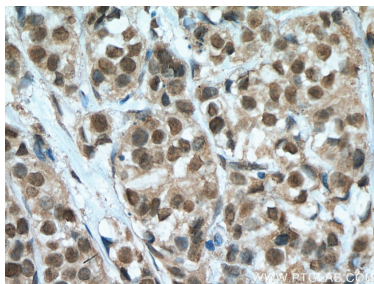
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

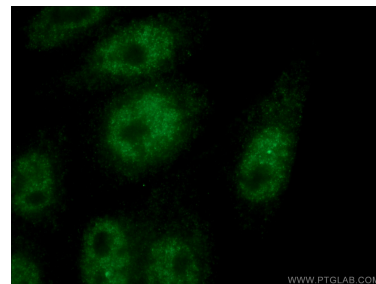
## Selected Validation Data



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. This data was developed using the same antibody clone with 67091-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67091-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 67091-1-Ig (HORMAD1 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67091-1-PBS in a different storage buffer formulation.