

For Research Use Only

# HORMAD1 Monoclonal antibody

Catalog Number: 67091-1-Ig

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 67091-1-Ig	<b>GenBank Accession Number:</b> BC047406	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 2100 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 84072	<b>CloneNo.:</b> 2D7E12
<b>Source:</b> Mouse	<b>Full Name:</b> HORMA domain containing 1	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IHC 1:200-1:800 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 45 kDa	
<b>Immunogen Catalog Number:</b> AG28316	<b>Observed MW:</b> 50-55 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, WB	<b>WB :</b> human testis tissue, mouse testis tissue
<b>Species Specificity:</b> Human, mouse	<b>IHC :</b> human breast cancer tissue,
<b>Cited Species:</b> human	<b>IF :</b> HepG2 cells,

**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 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

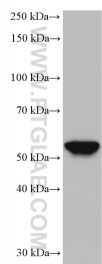
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

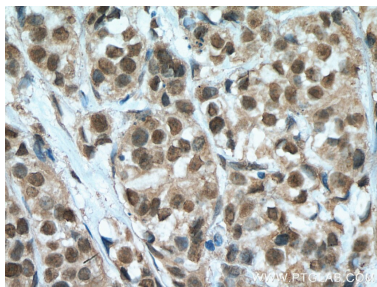
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

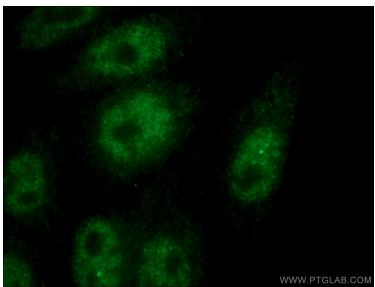
## Selected Validation Data



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.



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).