

For Research Use Only

HORMAD1 Polyclonal antibody

Catalog Number: 28719-1-AP

1 Publications



Basic Information

Catalog Number: 28719-1-AP	GenBank Accession Number: BC047406	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 ug/ml by Nanodrop and 400 ug/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	UNIPROT ID: Q86X24	
Isotype: IgG	Full Name: HORMA domain containing 1	
Immunogen Catalog Number: AG29859	Calculated MW: 45 kDa	
	Observed MW: 45 kDa	

Applications

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

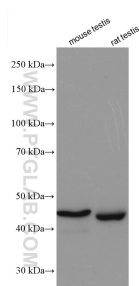
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

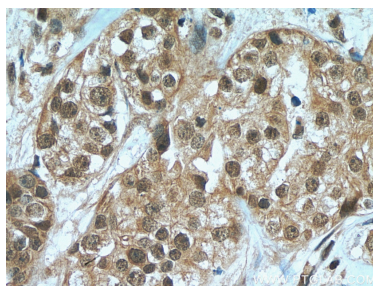
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

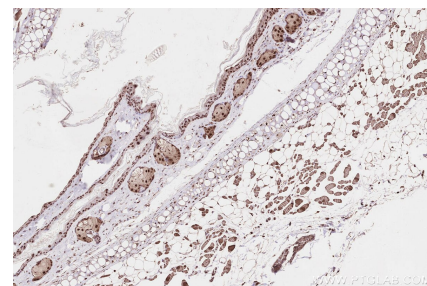
Selected Validation Data



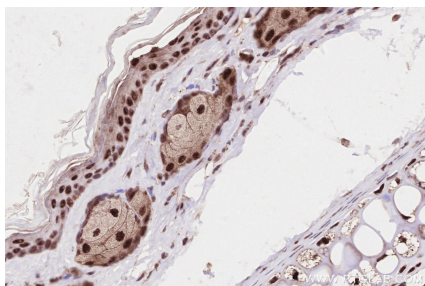
Various lysates were subjected to SDS PAGE followed by western blot with 28719-1-AP (HORMAD1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



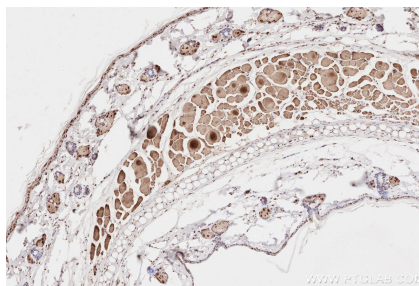
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 28719-1-AP (HORMAD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



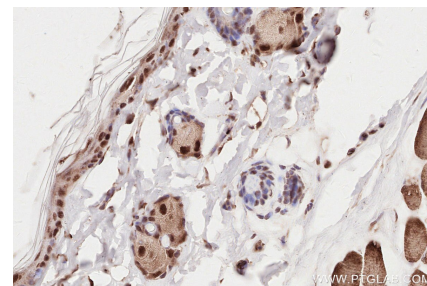
Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 28719-1-AP (HORMAD1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 28719-1-AP (HORMAD1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat skin tissue slide using 28719-1-AP (HORMAD1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat skin tissue slide using 28719-1-AP (HORMAD1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).