

For Research Use Only

HP1BP3 Recombinant monoclonal antibody

Catalog Number:86974-2-RR



Basic Information

Catalog Number: 86974-2-RR	GenBank Accession Number: BC045660	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 50809	CloneNo.: 252095F2
Source: Rabbit	UNIPROT ID: Q555J5	Recommended Dilutions: WB: 1:500-1:2000
Isotype: IgG	Full Name: heterochromatin protein 1, binding protein 3	
Immunogen Catalog Number: AG18709	Calculated MW: 553 aa, 61 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, HepG2 cells, MCF-7 cells, EC109 cells
Species Specificity: human	

Background Information

HP1BP3 (heterochromatin protein 1-binding protein 3) is an evolutionarily conserved nuclear protein that functions as a non-canonical linker histone. It is broadly expressed in most vertebrate tissues and is structurally related to the histone H1 family, containing three globular domains and a highly basic C-terminal tail reminiscent of H1 proteins. Unique to HP1BP3 are an acidic N-terminal stretch and a consensus HP1-binding motif (PxVxL), through which it associates with heterochromatin protein 1 (HP1 α/β) and is enriched at perinucleolar heterochromatin regions marked by H3K9me3. Functionally, HP1BP3 acts as a modulator of gene expression and genome stability. Alternative splicing was reported to produce 4 different isoforms of HP1BP3, the calculated MW corresponding to 61, 57, 44, 15 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
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)

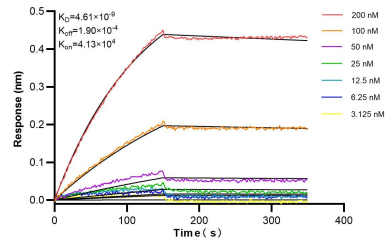
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W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86974-2-RR (HP1BP3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86974-2-RR against Human HP1BP3 were performed. The affinity constant is 4.61 nM.