

For Research Use Only

# HP1BP3 Recombinant monoclonal antibody

Catalog Number: 86974-2-RR



## Basic Information

<b>Catalog Number:</b> 86974-2-RR	<b>GenBank Accession Number:</b> BC045660	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 50809	<b>CloneNo.:</b> 252095F2
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q55SJ5	<b>Recommended Dilutions:</b> WB: 1:500-1:2000
<b>Immunogen Catalog Number:</b> AG18709	<b>Full Name:</b> heterochromatin protein 1, binding protein 3	
	<b>Calculated MW:</b> 553 aa, 61 kDa	
	<b>Observed MW:</b> 75 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, HepG2 cells, MCF-7 cells, EC109 cells
<b>Species Specificity:</b> 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  $\alpha$  /  $\beta$ ) 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

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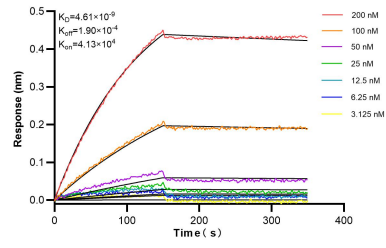
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## Selected Validation Data



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.