

For Research Use Only

# SMAD5 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87142-1-PBS



## Basic Information

<b>Catalog Number:</b> 87142-1-PBS	<b>GenBank Accession Number:</b> BC009682	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4090	<b>CloneNo.:</b> 252329G2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99717	
<b>Isotype:</b> IgG	<b>Full Name:</b> SMAD family member 5	
<b>Immunogen Catalog Number:</b> AG2809	<b>Calculated MW:</b> 465 aa, 52 kDa	

## Applications

**Tested Applications:**  
Sandwich ELISA, Indirect ELISA

**Species Specificity:**  
human

## Product Information

87142-1-PBS targets SMAD5 as part of a matched antibody pair:

MP02940-1: 87142-2-PBS capture and 87142-1-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

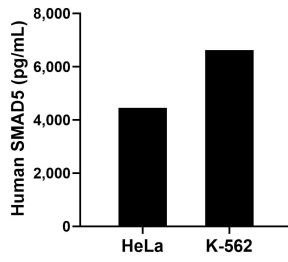
For technical support and original validation data for this product please contact:

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

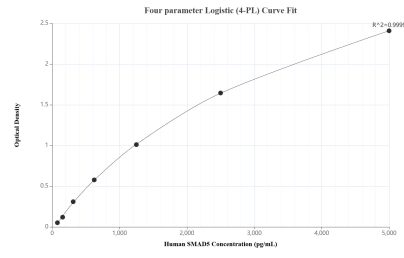
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

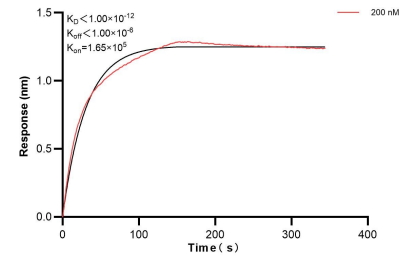
## Selected Validation Data



The mean SMAD5 concentration was determined to be 4,453.61 pg/mL in HeLa cell extract based on a 1.2 mg/mL extract load and 6,622.6 pg/mL in K-562 cell extract based on a 1.2 mg/mL extract load.



Sandwich ELISA standard curve of MP02940-1, Human SMAD5 Recombinant Matched Antibody Pair - PBS only. 87142-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag2809. 87142-1-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



Bi-layer interferometry (BLI) kinetic assay of 87142-1-PBS against Human SMAD5 was performed. The affinity constant is below 1 pM.