

For Research Use Only

# Shootin 1 Recombinant antibody, PBS Only (Capture)

Catalog Number: 86541-2-PBS



## Basic Information

<b>Catalog Number:</b> 86541-2-PBS	<b>GenBank Accession Number:</b> BC022348	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57698	<b>CloneNo.:</b> 251435E5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> A0MZ66	
<b>Isotype:</b> IgG	<b>Full Name:</b> KIAA1598	
<b>Immunogen Catalog Number:</b> AG18294	<b>Calculated MW:</b> 72 kDa	
	<b>Observed MW:</b> 60-80 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA, Sample test

**Species Specificity:**  
human, mouse

## Product Information

86541-2-PBS targets Shootin 1 as part of a matched antibody pair:

MP02499-1: 86541-2-PBS capture and 86541-1-PBS detection (validated in Cytometric bead array)

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.

## Background Information

Shootin 1, also known as SHTN1, KIAA1598, contains 3 coiled-coil domains and a proline-rich region. Shootin 1 is involved in generating internal asymmetric signals required for neuronal during stages 2 and 3. Shootin 1 plays a role in cytoskeletal organization by regulating the subcellular localization of phosphoinositide 3-kinase (PI3K) activity at the axonal growth cone. SHTN1 produces 2 splice variants, a short variant, SHTN1S, that lacks exons 15 and 16, and a long variant, SHTN1L, that includes exons 1 through 17 (PMID: 17030985, 30733148).

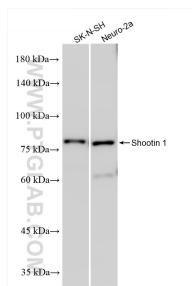
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

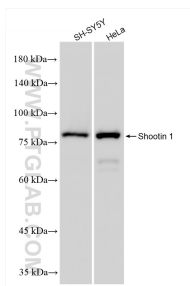
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

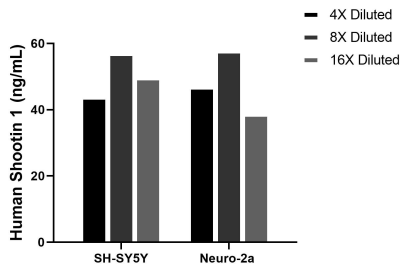
## Selected Validation Data



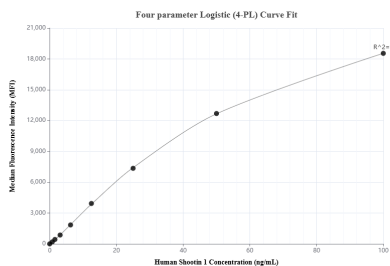
Various lysates were subjected to SDS PAGE followed by western blot with 86541-2-RR (KIAA1598 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86541-2-PBS in a different storage buffer formulation.



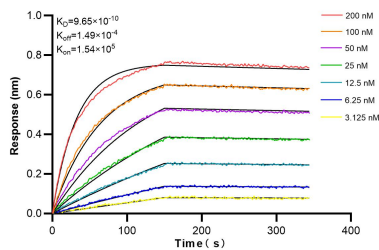
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The mean Shootin 1 concentration was determined to be 50.1 ng/mL in SH-SY5Y cell extract based on a 1.4 mg/mL extract load, 47.7 ng/mL in Neuro-2a cell extract based on a 1.6 mg/mL extract load.



Cytometric bead array standard curve of MPO2499-1, Shootin 1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86541-2-PBS. Detection antibody: 86541-1-PBS. Standard: Ag18294. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86541-2-RR against Human Shootin 1 were performed. The affinity constant is 0.965 nM.