

For Research Use Only

Shootin 1 Recombinant antibody, PBS Only (Capture)

Catalog Number: 86541-2-PBS



Basic Information

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

Applications

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

Species Specificity:
human, mouse

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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

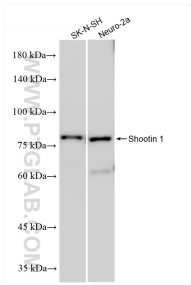
T: 4006900926

E: Proteintech-CN@ptglab.com

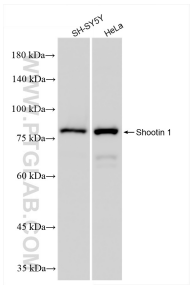
W: ptgcn.com

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

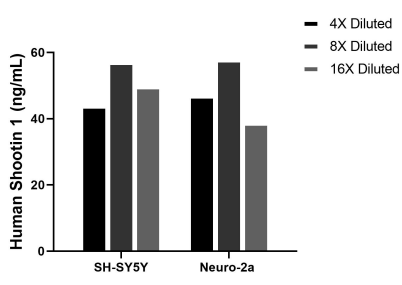
Selected Validation Data



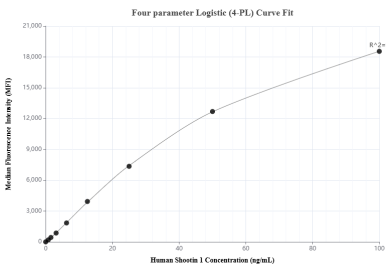
Various lysates were subjected to SDS PAGE followed by western blot with 86541-2-RR (KIAA1598 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86541-2-PBS in a different storage buffer formulation.



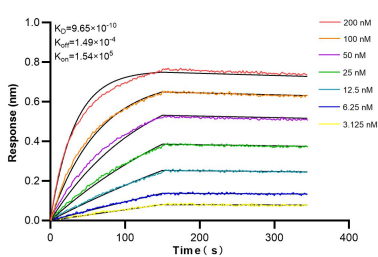
Various lysates were subjected to SDS PAGE followed by western blot with 86541-2-RR (KIAA1598 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86541-2-PBS in a different storage buffer formulation.



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.