

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 |
| Size: | 100ug, Concentration: 1 mg/ml by Nanodrop; | GenID (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

Product Information

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

MPO2499-1: 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:

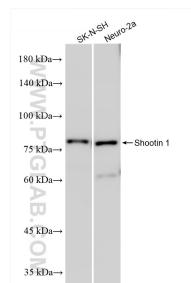
PBS only, pH7.3

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)

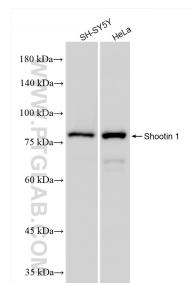
E: proteintech@ptglab.com
W: ptglab.com

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

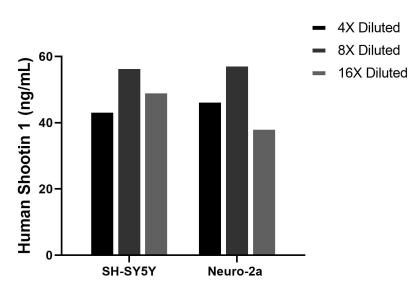
Selected Validation Data



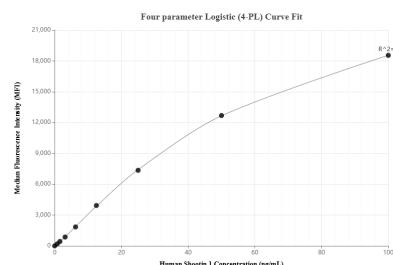
Various lysates were subjected to SDS PAGE followed by western blot with 86541-2-RR (KIAA1598 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86541-2-PBS in a different storage buffer formulation.



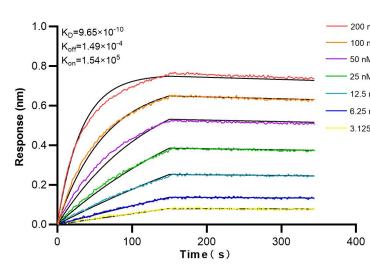
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The mean Shootin 1 concentration was determined to be 50.1 ng/mL in SH-SY5Y cell extract based on a 1.4 mg/mL extract load, 47.7 ng/mL in Neuro-2a cell extract based on a 1.6 mg/mL extract load.



Cytometric bead array standard curve of MP02499-1, 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.