

PSD-95 Recombinant Rabbit Monoclonal Antibody (23H23L19)

Product Details	
Size	100 µg
Species Reactivity	Human, Rat
Published Species	Rat, Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	23H23L19
Conjugate	Unconjugated
Immunogen	proprietary
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532348

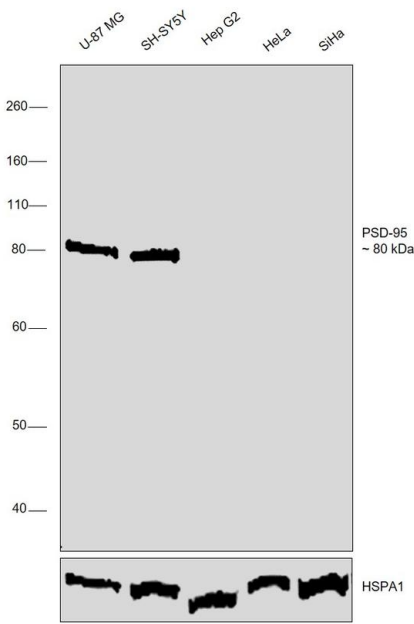
Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-1 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	1:1,000	-
ELISA (ELISA)	-	1 Publication

Product Specific Information

700902 has been successfully used in immunofluorescence analysis of PSD95 in human motor neurons derived from iPSCs.

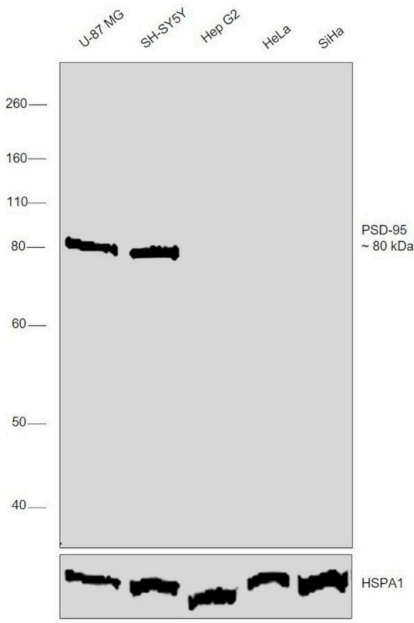
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For PSD-95 Recombinant Rabbit Monoclonal Antibody (23H23L19)



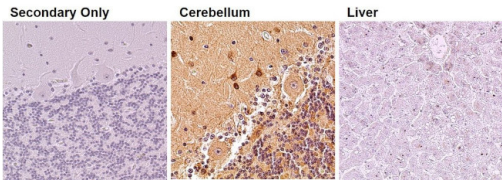
PSD-95 Antibody (700902) in WB

Western blot was performed using Anti-PSD-95 Recombinant Rabbit Monoclonal Antibody (23H23L19) (Product # 700902) and a 80 kDa band corresponding to PSD-95 was observed across U-87 MG and SH-SY5Y. Whole Cell Extract-WCL (30 µg lysate) of U-87 MG (Lane 1), SH-SY5Y (Lane 2), Hep G2 (Lane 3), HeLa (Lane 4) and SiHa (Lane 5) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.5 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



PSD-95 Antibody (700902)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of PSD-95 was observed in U-87 MG and SH-SY5Y in comparison to Hep G2, HeLa and SiHa using Anti-PSD-95 Recombinant Rabbit Monoclonal Antibody (23H23L19) (Product # 700902) in Western Blot. {RE}



PSD-95 Antibody (700902)

The specificity of Anti-PSD95 Recombinant Rabbit Monoclonal Antibody (Product # 700902) was demonstrated using naturally occurring variable expression to confirm specificity. Immunohistochemistry analysis of human tissue sections using this antibody showed PSD95 is strongly stained in human cerebellum tissue and no staining in human liver tissue which does not express PSD95. {RE}

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Western Blot (2)

Science advances	Year 2022
Targeted BACE-1 inhibition in microglia enhances amyloid clearance and improved cognitive performance.	Species Mouse
"700902 was used in Western Blotting to suggest that targeted inhibition of BACE-1 in microglia is a superior strategy for AD treatment."	
Authors: Singh N, Das B, Zhou J, Hu X, Yan R	

Neuroscience	Year 2017
Small molecule inhibitors of PSD95-nNOS protein-protein interactions suppress formalin-evoked Fos protein expression and nociceptive behavior in rats.	Species Rat
"700902 was used in Western Blotting to study the impact of small molecule postsynaptic density protein 95kDa-neuronal nitric oxide synthase protein-protein interaction inhibitors on both nociceptive behaviour and formalin-evoked Fos protein expression within the lumbar spinal cord."	Dilution 1:1000
Authors: Carey LM, Lee WH, Gutierrez T, Kulkarni PM, Thakur GA, Lai YY, Hohmann AG	

ELISA (1)

International journal of molecular sciences	Year 2021
Synaptamide Improves Cognitive Functions and Neuronal Plasticity in Neuropathic Pain.	Species Mouse
"700902 was used in Enzyme-linked immunosorbent assay to provide evidence that synaptamide has a beneficial effect on hippocampal functioning, including synaptic plasticity and hippocampus-dependent cognitive processes in neuropathic pain."	Dilution 1:1000
Authors: Tyrtysnaia A, Bondar A, Konovalova S, Manzhulo I	

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