

HOMER1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 72 and 339 of Homer (Uniprot ID#Q86YM7)
Form	Liquid
Concentration	1.06 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_11155843

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:10,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	1 Publication
Immunoprecipitation (IP)	1:100-1:500	-

Product Specific Information

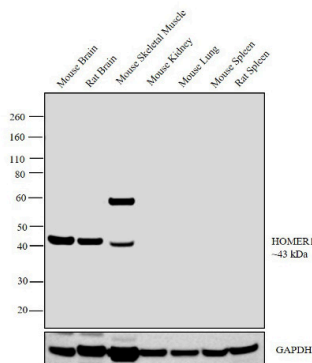
Recommended positive controls: U87-MG, SK-N-SH, IMR32, SK-N-AS, mouse brain, rat brain.

Predicted reactivity: Mouse (97%), Rat (91%), Xenopus laevis (85%), Pig (98%), Rhesus Monkey (99%), Bovine (97%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

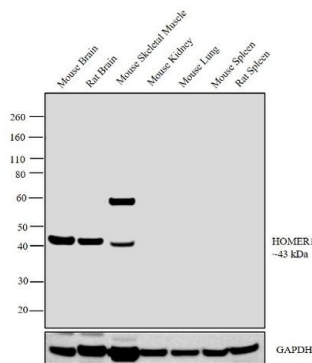
HOMER1 Antibody (PA5-21487)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue models owing to their inherent genetic constitution. Relative expression of HOMER1 was observed in Mouse Brain, Rat Brain, and Mouse Skeletal Muscle in comparison to Mouse Kidney, Mouse Lung, Mouse Spleen and Rat Spleen using product (Product # PA5-21487) in western blot. {RE}



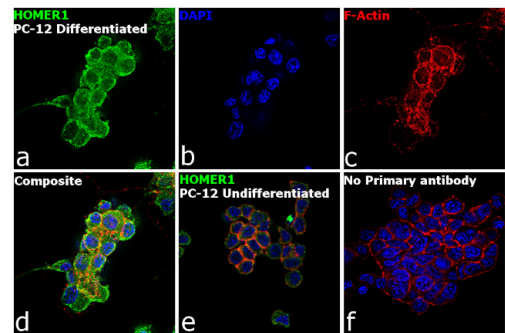
HOMER1 Antibody (PA5-21487) in WB

Western blot analysis was performed on tissue extracts (30 µg lysate) of Mouse Brain (Lane 1), Rat Brain (Lane 2), Mouse Skeletal Muscle (Lane 3), Mouse Kidney (Lane 4), Mouse Lung (Lane 5), Mouse Spleen (Lane 6) and Rat Spleen (Lane 7). The blot was probed with Anti-HOMER1 Polyclonal Antibody (Product # PA5-21487, 1:3000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 43 kDa band corresponding to HOMER1 was observed in Mouse Brain, Rat Brain and Mouse Skeletal Muscle compared to other tissue extracts which are reported to be negative for HOMER1 expression. An additional band at 60 KDa was observed in Mouse Skeletal Muscle.



HOMER1 Antibody (PA5-21487) in ICC/IF

Immunofluorescence analysis of HOMER1 was performed using 90% confluent log phase PC-12 cells differentiated to Neuronal cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with HOMER1 Rabbit Polyclonal Antibody (Product # PA5-21487) at 5 microgram/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Cytoplasmic localization. Panel e shows undifferentiated cells with reduced signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Immunocytochemistry (1)

Neurology	Year 2016
Human neurexin-3 antibodies associate with encephalitis and alter synapse development.	Species Human
"PA521487 was used in immunocytochemistry to characterize a novel autoimmune encephalitis"	Dilution 1:100
Authors: Gresa-Arribas N,Planagumà J,Petit-Pedrol M,Kawachi I,Katada S,Glaser CA,Simabukuro MM,Armangué T, Martínez-Hernández E,Graus F,Dalmau J	

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