

VAMP1 Recombinant Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Peptide corresponding to human VAMP1 (aa2-aa19)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
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_2716915

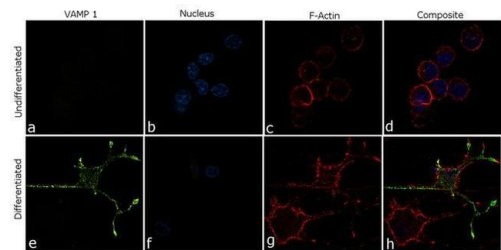
Applications	Tested Dilution	Publications
Western Blot (WB)	2.5 µg/mL	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

This antibody is predicted to react with Monkey, Pig, Rabbit and Bovine based on sequence homology.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For VAMP1 Recombinant Polyclonal Antibody

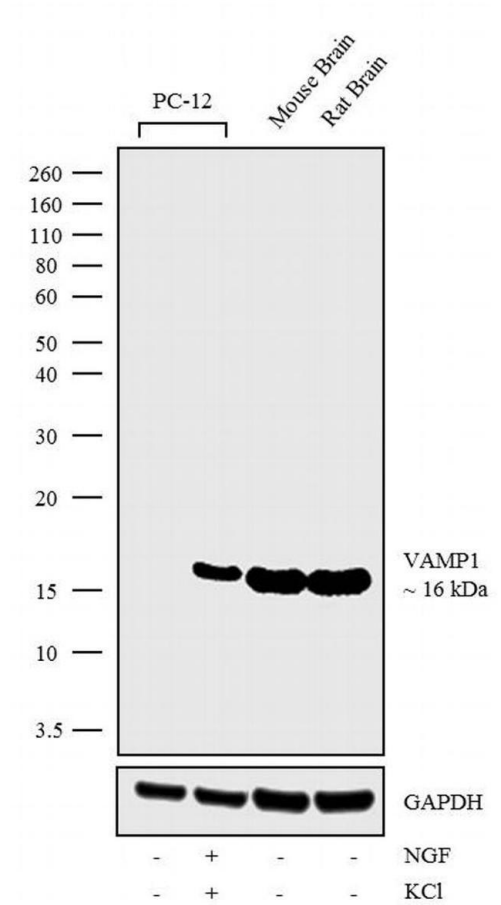


VAMP1 Antibody (711822)

Detection of subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of VAMP1 using Anti-VAMP1 Recombinant Rabbit Polyclonal Antibody (Product # 711822) detects VAMP1 in cytoplasm and neuronal processes of PC12 cells treated with NGF. {TM}

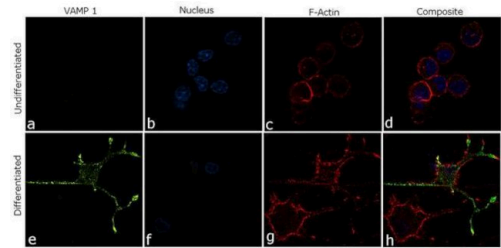
VAMP1 Antibody (711822) in WB

Western blot analysis was performed on Whole cell extracts (30 µg lysate) of PC-12 (Lane 1), PC-12 treated with NGF and KCl (NGF at 200 nM, KCl at 50 nM for 7 days) (Lane 2) and tissue extracts (30 µg lysate) of Mouse Brain (Lane 3) and Rat Brain (Lane 4). The blots were probed with Anti-VAMP1 Recombinant Rabbit Polyclonal Antibody (Product # 711822, 2.5 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:4000 dilution). A 16 kDa band corresponding to VAMP1 was observed specifically in NGF differentiated PC-12 and tissues tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®10% Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



VAMP1 Antibody (711822) in ICC/IF

For immunofluorescence analysis, PC12 cells were fixed and permeabilized for detection of endogenous VAMP1 using Anti-VAMP1 Recombinant Rabbit Polyclonal Antibody (Product # 711822, 5 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Nuclei (blue) is stained using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938) and cytoskeletal F-actin (red) staining using Rhodamine Phalloidin (Product # R415, 1:300) Panel a-d) shows representative undifferentiated cells that were stained for detection and localization of VAMP1 protein (green) with no signal. Panel e-h) clearly demonstrate enhanced signal of VAMP1 in cell body and neuronal processes of NGF (200 ng/mL 5days) differentiated PC12 cells. The images were captured at 60X magnification.



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