Datasheet for ABIN233820

anti-Tamalin/GRASP antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	Tamalin/GRASP (GRASP)
Binding Specificity:	N-Term
Reactivity:	Mouse, Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Purpose:	Tamalin Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the amino terminus of mouse Tamalin protein. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against mouse Tamalin protein.
Characteristics:	Synonyms: rabbit anti-Tamalin antibody, rabbit anti-Grasp antibody, GRASP 1 antibody, GRP1-associated scaffold protein, GRIP associated protein 1 antibody, GRIP1 associated protein 1 antibody, GRIPAP 1 antibody, General receptor for phosphoinositides 1-associated scaffold protein
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity

Product Details

	chromatography.
Sterility:	Sterile filtered

Target Details

Target:	Tamalin/GRASP (GRASP)
Alternative Name:	Grasp (GRASP Products)
Background:	Background: This antibody is designed, produced, and validated as part of a collaboration with the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Tamalin, also named General receptor for phosphoinositides 1-associated scaffold protein (GRASP) is a PDZ (post-synaptic density protein/Drosophila disc large tumor suppressor/zo-1) domain-containing protein that interacts with group 1 metabotropic glutamate receptors (mGluRs). The PDZ domain-containing amino-terminal half of Tamalin binds directly to the class I PDZ-binding motif of group 1 mGluRs. The carboxyl-terminal half of Tamalin binds to cytohesins, which are guanine nucleotide exchange factors (GEFs) specific for the ADP-ribosylation factor (ARF) family of small GTP-binding proteins. Tamalin forms a protein complex with group 1 mGluRs at the post-synaptic site of specific neuronal cells and serves as a key scaffold protein that links a complex formation between mGluR1a and cytohesins. It is reported that Tamalin plays a key role in the association of group 1 mGluRs with the ARF-specific GEF proteins and contributes to intracellular trafficking and the macromolecular organization of group 1 mGluRs at synapses.
Gene ID:	56149, 103472019
UniProt:	Q9JJA9

Application Details

Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA, western blotting, and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 42 kDa in size corresponding to Tamalin protein by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:500 - 1:3,000 Immunoprecipitation Dilution: 1 µg ELISA Dilution: 1:4,000 - 1:20,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.03 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

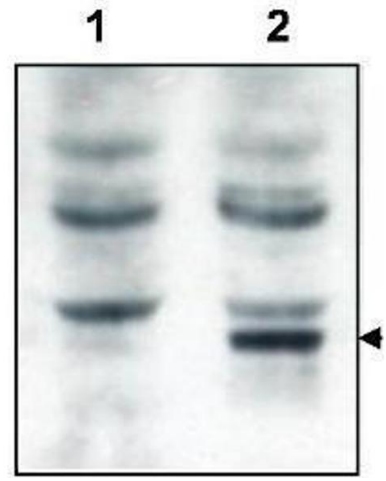
Publications

Product cited in:	Kimura, Kitano, Nakajima, Nakanishi: "Hyperpolarization-activated, cyclic nucleotide-gated HCN2 cation channel forms a protein assembly with multiple neuronal scaffold proteins in distinct modes of protein-protein interaction." in: **Genes to cells : devoted to molecular & cellular mechanisms**, Vol. 9, Issue 7, pp. 631-40, (2004) (PubMed). Hirose, Kitano, Nakajima, Moriyoshi, Yanagi, Yamamura, Muto, Jingami, Nakanishi: " Phosphorylation and recruitment of Syk by immunoreceptor tyrosine-based activation motif-based phosphorylation of tamalin." in: **The Journal of biological chemistry**, Vol. 279, Issue 31, pp. 32308-15, (2004) (PubMed). Kitano, Nishida, Itsukaichi, Minami, Ogawa, Hirano, Mori, Nakanishi: "Direct interaction and functional coupling between metabotropic glutamate receptor subtype 1 and voltage-sensitive Cav2.1 Ca2+ channel." in: **The Journal of biological chemistry**, Vol. 278, Issue 27, pp. 25101-8, (2003) (PubMed). Kitano, Kimura, Yamazaki, Soda, Shigemoto, Nakajima, Nakanishi: "Tamalin, a PDZ domain-containing protein, links a protein complex formation of group 1 metabotropic glutamate

Publications

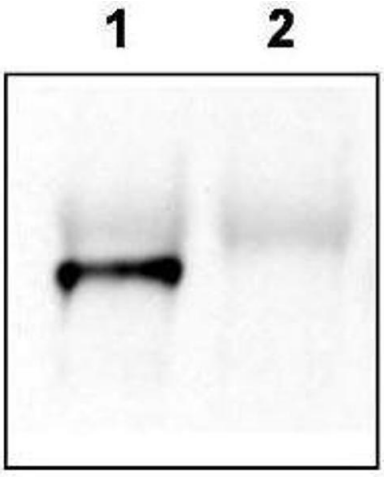
receptors and the guanine nucleotide exchange factor cytohesins." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 22, Issue 4, pp. 1280-9 , (2002) (PubMed).

Images



Western Blotting

Image 1. Western blot using affinity purified anti-Tamalin to detect over-expressed Tamalin in HEK293 cells (lane 2, arrowhead). Lane 1 shows the non-transfected control. Cell extracts were electrophoresed and transferred to nitrocellulose. The membrane was probed with the primary antibody at a 1:2,000 dilution. Personal Communication, V. Coppola, CCR-NCI, Frederick, MD.



Western Blotting

Image 2. Mouse brain lysate was immunoprecipitated with anti-Tamalin antiserum. A blot was prepared and probed with affinity purified anti-Tamalin. Lane 1 is wild-type brain lysate; Lane 2 is Tamalin knock-out brain lysate. The membrane was probed with the primary antibody at a 1:1,000 dilution. Personal Communication, V. Coppola, CCR-NCI, Frederick, MD.

