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Product datasheet for TA319490

Tamalin Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:4,000 - 1:20,000, WB: 1:500 - 1:3,000, IP: 1ug
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein
Database Link:	NP_062391 Entrez Gene 56149 Mouse Q9JJA9
Synonyms:	TAMALIN

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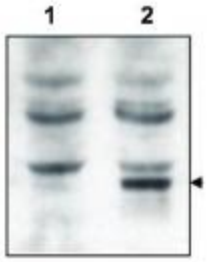
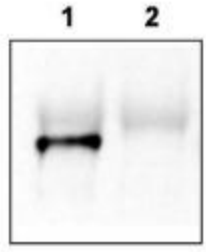
Note: This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Tamalin, also named General receptor for phosphoinositides 1-associated scaffold protein (GRASP) is a PDZ (post-synaptic density protein/Drosophila disc large tumor suppressor/zo-1) domain-containing protein that interacts 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.

Product images:



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.



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.