

Anti-Tamalin (RABBIT) Antibody
Tamalin Antibody
Catalog # ASR5386**Specification**

Anti-Tamalin (RABBIT) Antibody - Product Information

Host	Rabbit
Conjugate	Unconjugated
Target Species	Mouse
Reactivity	Human, Mouse
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
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.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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.
Preservative	0.01% (w/v) Sodium Azide

Anti-Tamalin (RABBIT) Antibody - Additional Information**Gene ID** 56149**Other Names**
56149**Purity**

This affinity purified antibody is directed against mouse Tamalin protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Tamalin protein from rat based on a 94% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.

Storage Condition

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Tamalin (RABBIT) Antibody - Protein Information

Name Tamalin {ECO:0000303|PubMed:11850456}

Synonyms Grasp

Function

Plays a role in intracellular trafficking and contributes to the macromolecular organization of group 1 metabotropic glutamate receptors (mGluRs) at synapses.

Cellular Location

Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q8R4T5}. Cell membrane {ECO:0000250|UniProtKB:Q8R4T5}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q8R4T5}; Cytoplasmic side {ECO:0000250|UniProtKB:Q8R4T5}. Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q8R4T5}

Tissue Location

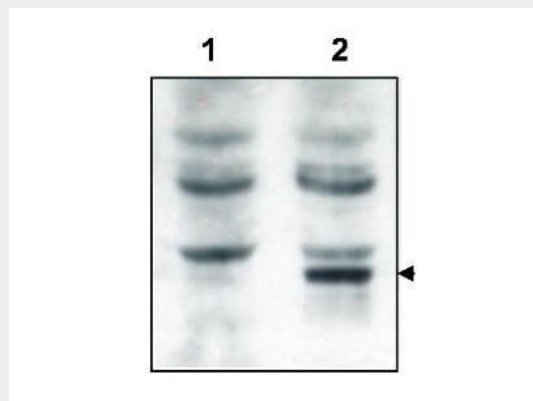
Highly expressed in brain, heart and lung, and to a lower extent in embryo, kidney and ovary.

Anti-Tamalin (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Tamalin (RABBIT) Antibody - Images



Western blot using Rockland's 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.

Anti-Tamalin (RABBIT) Antibody - Background

This antibody is designed, produced, and validated as part of a collaboration between Rockland and 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.