

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

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**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.