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RABBIT ANTI-STARGAZIN
AFFINITY PURIFIED
POLYCLONAL ANTIBODY

CATALOG NUMBER: AB9876 **QUANTITY:** 100 µg

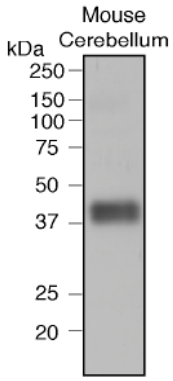
LOT NUMBER: **CONCENTRATION:** 0.145 mg/mL

SPECIFICITY: Stargazin [Stargazin-like TARP (transmembrane AMPA receptor regulatory protein)]. By Western blot on mouse cerebellum the antibody recognizes a band at ~37 kDa using a Triton soluble fraction. The band represents Stargazin/TARP γ-2. By Western blot on mouse hippocampus the antibody recognizes bands at ~37 kDa and ~50 kDa using a Triton soluble fraction. The ~ 50 kDa band represents Stargazin/TARP γ-8. The antibody reacts weakly with γ-3 and γ-4. Stargazin is expressed strongly in the hippocampus and cerebellum.

Stargazin-like TARPs can form a dimer by different sample preparation and often times the dimer (~55 kDa) is confused as TARP γ-8 (~50 kDa).

IMMUNOGEN: GST fusion protein from rat stargazin, cytoplasmic domain.

APPLICATIONS: Western blot: 0.1 µg/mL on Triton soluble fraction of rat/mouse brain. Suggested dilution buffer is TBS-T and blocking buffer is 3% skim milk. Suggested incubation time is 3 hours to overnight at room temperature.



Immunohistochemistry: 0.25-0.5 µg/mL on 4% paraformaldehyde fixed tissue. Suggested dilution buffer is PBS-T. Suggested permeabilization method is 0.1% Triton X-100. Suggested incubation time is 2 hours to overnight at room temperature.
Immunocytochemistry
Immunoprecipitation: 1-2 µg. Suggested reaction volume is 200-1000 µL. Suggested total protein concentration is 2 mg/mL. Suggested incubation time is 2 hours at 2-8°C.
Suggested capture agent is Protein A.
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITY: Rat and mouse. Other species have not yet been tested.

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CONTROL:	To distinguish the dimer of stargazin/γ-2 from γ-8, cerebellum lysate can be used as a control because cerebellum expresses almost no γ-8. Hippocampus expresses a high level of stargazin/γ-8.
FORMAT:	Affinity purified immunoglobulin.
PRESENTATION:	Liquid in 130 mM Tris-Cl, 87 mM Glycine, pH 7.4.
STORAGE/HANDLING:	Maintain at -80°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze thaw cycles. The antibody may be kept at 2-8°C for 1-3 weeks after thawing.
REFERENCES:	Tomita, et al., *J. Cell Biol.* (2003) **161**:805-816. Tomita, et al., *Science* (2004) **303**:1508-1511. Tomita, et al., *Neuron* (2005) **45**:269-277.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

For research use only; not for use as a diagnostic.

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