

Goat Anti-GRAP Antibody

Peptide-affinity purified goat antibody Catalog # AF1505a

Specification

Goat Anti-GRAP Antibody - Product Information

Application WB
Primary Accession 013588

Other Accession NP 006604, 10750, 71520 (mouse)

Reactivity Human

Predicted Mouse, Rat, Cow

Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG
Calculated MW 25337

Goat Anti-GRAP Antibody - Additional Information

Gene ID 10750

Other Names

GRB2-related adapter protein, GRAP

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-GRAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GRAP Antibody - Protein Information

Name GRAP (HGNC:4562)

Function

Couples signals from receptor and cytoplasmic tyrosine kinases to the Ras signaling pathway. Plays a role in the inner ear and in hearing (PubMed:30610177).

Cellular Location

Membrane {ECO:0000250|UniProtKB:Q08012}; Peripheral membrane protein



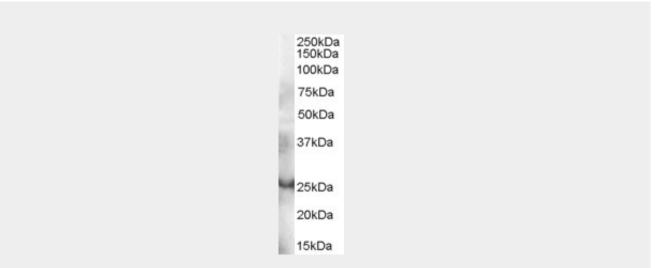
{ECO:0000250|UniProtKB:Q08012}. Synapse {ECO:0000250|UniProtKB:Q08012}. Note=Localizes at the presynaptic terminal. {ECO:0000250|UniProtKB:Q08012}

Goat Anti-GRAP Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Goat Anti-GRAP Antibody - Images



AF1505a (0.3 μ g/ml) staining of human thymus lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

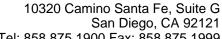
Goat Anti-GRAP Antibody - Background

This gene encodes a member of the GRB2/Sem5/Drk family. This member functions as a cytoplasmic signaling protein which contains an SH2 domain flanked by two SH3 domains. The SH2 domain interacts with ligand-activated receptors for stem cell factor and erythropoietin, and facilitates the formation of a stable complex with the BCR-ABL oncoprotein. This protein also associates with the Ras guanine nucleotide exchange factor SOS1 (son of sevenless homolog 1) through its N-terminal SH3 domain.

Goat Anti-GRAP Antibody - References

Quantitative mass spectrometry of diabetic kidney tubules identifies GRAP as a novel regulator of TGF-beta signaling. Cummins TD, et al. Biochim Biophys Acta, 2010 Apr. PMID 19836472. CD28 and Grb-2, relative to Gads or Grap, preferentially co-operate with Vav1 in the activation of NFAT/AP-1 transcription. Schneider H, et al. Biochem Biophys Res Commun, 2008 May 2. PMID 18295596.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Detection of Grb-2-related adaptor protein gene (GRAP) and peptide molecule in salivary glands of





Tel: 858.875.1900 Fax: 858.875.1999

MRL/lpr mice and patients with Sj\u00e4gren's syndrome. Shiraiwa H, et al. J Int Med Res, 2004 May-Jun. PMID 15174222.

GC-GAP, a Rho family GTPase-activating protein that interacts with signaling adapters Gab1 and Gab2. Zhao C, et al. J Biol Chem, 2003 Sep 5. PMID 12819203.