

**Goat Anti-GRAP Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1505a****Specification**

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**Goat Anti-GRAP Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q13588</a>
Other Accession	<a href="#">NP_006604</a> , <a href="#">10750</a> , <a href="#">71520 (mouse)</a>
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 IgG/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:&lt;a href="http://www.uniprot.org/citations/30610177" target="\_blank"&gt;30610177&lt;/a&gt;).

**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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Goat Anti-GRAP Antibody - Images



AF1505a (0.3 µg/ml) staining of human thymus lysate (35 µg 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

MRL/lpr mice and patients with Sjögren'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.