

**Goat Anti-OIP106 / TRAK1 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1753a

### Specification

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#### Goat Anti-OIP106 / TRAK1 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O9UPV9</a>
Other Accession	<a href="#">NP_001036111</a> , <a href="#">22906</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	106040

#### Goat Anti-OIP106 / TRAK1 Antibody - Additional Information

**Gene ID** 22906

#### Other Names

Trafficking kinesin-binding protein 1, 106 kDa O-GlcNAc transferase-interacting protein, TRAK1, KIAA1042, OIP106

#### 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-OIP106 / TRAK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Goat Anti-OIP106 / TRAK1 Antibody - Protein Information

**Name** TRAK1

**Synonyms** KIAA1042, OIP106

#### Function

Involved in the regulation of endosome-to-lysosome trafficking, including endocytic trafficking of EGF-EGFR complexes and GABA-A receptors (PubMed:<a href="http://www.uniprot.org/citations/18675823" target="\_blank">18675823</a>). Involved in

mitochondrial motility. When O-glycosylated, abolishes mitochondrial motility. Crucial for recruiting OGT to the mitochondrial surface of neuronal processes (PubMed:<a href="http://www.uniprot.org/citations/24995978" target="\_blank">24995978</a>). TRAK1 and RHOT form an essential protein complex that links KIF5 to mitochondria for light chain-independent, anterograde transport of mitochondria (By similarity).

#### Cellular Location

Cytoplasm. Nucleus. Mitochondrion. Early endosome. Endosome. Mitochondrion membrane. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q6PD31}. Note=Predominantly associated with early endosome. The localization to early endosomes depends on its interaction with HGS/HRS (PubMed:18675823). Colocalizes with MGARP at the mitochondria (PubMed:19528298).

#### Tissue Location

High expression in spinal cord and moderate expression in all other tissues and specific brain regions examined Expressed in all cell lines examined.

### Goat Anti-OIP106 / TRAK1 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-OIP106 / TRAK1 Antibody - Images



AF1753a staining (0.3 µg/ml) of Human Heart lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

### Goat Anti-OIP106 / TRAK1 Antibody - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

Identification of TRAK1 (Trafficking protein, kinesin-binding 1) as MGb2-Ag: a novel cancer biomarker. Zhang F, et al. Cancer Lett, 2009 Feb 18. PMID 18986759.  
Hypertonia-associated protein Trak1 is a novel regulator of endosome-to-lysosome trafficking. Webber E, et al. J Mol Biol, 2008 Oct 10. PMID 18675823.  
The atypical Rho GTPases Miro-1 and Miro-2 have essential roles in mitochondrial trafficking. Fransson S, et al. Biochem Biophys Res Commun, 2006 Jun 2. PMID 16630562.  
The LIFEdb database in 2006. Mehrle A, et al. Nucleic Acids Res, 2006 Jan 1. PMID 16381901.