

Goat Anti-ORP2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1760a**Specification**

Goat Anti-ORP2 Antibody - Product Information

Application	WB
Primary Accession	O9H1P3
Other Accession	NP_653081 , 9885 , 228983 (mouse)
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	55201

Goat Anti-ORP2 Antibody - Additional Information**Gene ID** 9885**Other Names**

Oxysterol-binding protein-related protein 2, ORP-2, OSBP-related protein 2, OSBPL2, KIAA0772, ORP2

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-ORP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ORP2 Antibody - Protein Information**Name** OSBPL2**Synonyms** KIAA0772, ORP2**Function**

Intracellular transport protein that binds sterols and phospholipids and mediates lipid transport between intracellular compartments. Increases plasma membrane cholesterol levels and decreases phosphatidylinositol-4,5-bisphosphate levels in the cell membrane (PubMed:30581148). Binds phosphoinositides, such as phosphatidylinositol-4,5-bisphosphate (PubMed:30581148). Exhibits strong binding to phosphatidic acid and weak binding to phosphatidylinositol 3-phosphate (PubMed:11279184). Binds cholesterol, dehydroergosterol, 22(R)-hydroxycholesterol and 25-hydroxycholesterol (in vitro) (PubMed:17428193, PubMed:19224871, PubMed:30581148).

Cellular Location

Cytoplasm, cytosol. Lipid droplet. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Detected on the surface of cytosolic lipid droplets (PubMed:19224871). Recruited to the cell membrane by phosphatidylinositol-phosphate binding (PubMed:30581148)

Tissue Location

Widely expressed.

Goat Anti-ORP2 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-ORP2 Antibody - Images



AF1760a staining (1.5 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-ORP2 Antibody - Background

This gene encodes a member of the oxysterol-binding protein (OSBP) family, a group of intracellular lipid receptors. Most members contain an N-terminal pleckstrin homology domain and a highly conserved C-terminal OSBP-like sterol-binding domain, although some members contain only the sterol-binding domain. This encoded protein contains only the sterol-binding domain. In vitro studies have shown that the encoded protein can bind strongly to phosphatidic acid and weakly to phosphatidylinositol 3-phosphate, but cannot bind to 25-hydroxycholesterol. The protein associates with the Golgi apparatus. Transcript variants encoding different isoforms have been described.

Goat Anti-ORP2 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

OSBPL10, a novel candidate gene for high triglyceride trait in dyslipidemic Finnish subjects, regulates cellular lipid metabolism. Perttinen J, et al. J Mol Med, 2009 Aug. PMID 19554302.

OSBP-related protein 2 is a sterol receptor on lipid droplets that regulates the metabolism of neutral lipids. Hynynen R, et al. J Lipid Res, 2009 Jul. PMID 19224871.

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.