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Goat Anti-ORP2 Antibody

Peptide-affinity purified goat antibody

Catalog # AF1760a

Specification

Goat Anti-ORP2 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9H1P3
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

Dilution
WB~~1:1000
E~~N/A

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)

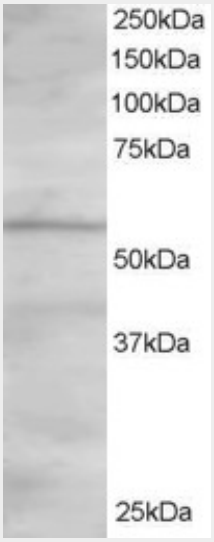
Tissue Location
Widely expressed.

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 Cytomety
- 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 phosphatic 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 Thiazolinedinedione-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. Perttil 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.