

Goat Anti-ORP5 (OBPH1) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1761a**Specification**

Goat Anti-ORP5 (OBPH1) Antibody - Product Information

Application	WB, E
Primary Accession	O9H0X9
Other Accession	NP_001137535 , 114879 , 79196 (mouse)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	98616

Goat Anti-ORP5 (OBPH1) Antibody - Additional Information**Gene ID** 114879**Other Names**

Oxysterol-binding protein-related protein 5, ORP-5, OSBP-related protein 5, Oxysterol-binding protein homolog 1, OSBPL5, KIAA1534, OBPH1, ORP5

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-ORP5 (OBPH1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ORP5 (OBPH1) Antibody - Protein Information**Name** OSBPL5**Synonyms** KIAA1534, OBPH1 {ECO:0000303|PubMed:1250

Function

Lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane: specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds phosphatidylserine and PI4P in a mutually exclusive manner (PubMed:23934110, PubMed:26206935). May cooperate with NPC1 to mediate the exit of cholesterol from endosomes/lysosomes (PubMed:21220512). Binds 25-hydroxycholesterol and cholesterol (PubMed:17428193).

Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein. Note=Localizes to endoplasmic reticulum-plasma membrane contact sites (EPCS). Localizes to the cortical endoplasmic reticulum at the EPCS

Tissue Location

Ubiquitously expressed.

Goat Anti-ORP5 (OBPH1) Antibody - Protocols

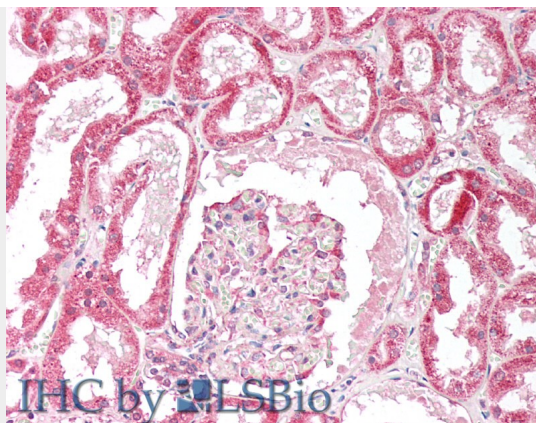
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

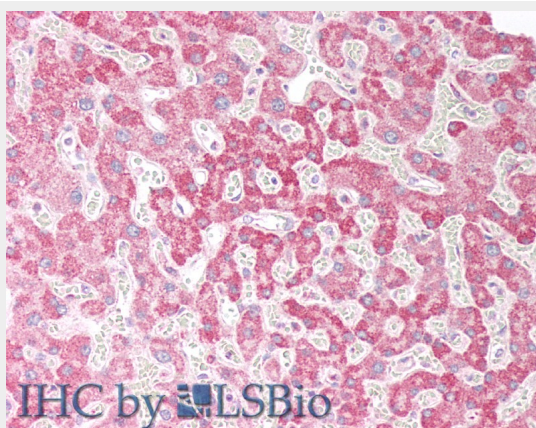
Goat Anti-ORP5 (OBPH1) Antibody - Images



AF1761a (2 µg/ml) staining of human spleen lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB06154 (5µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



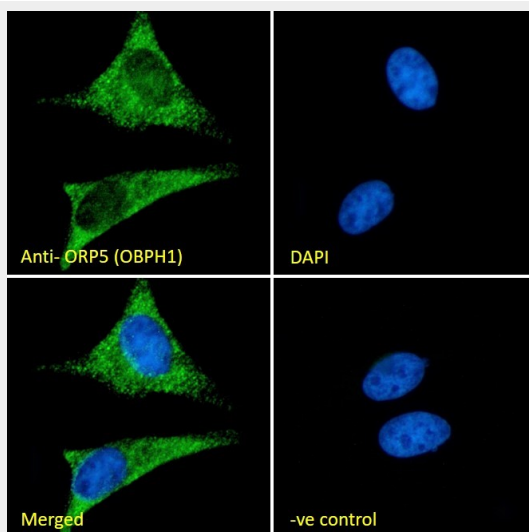
EB06154 (5µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



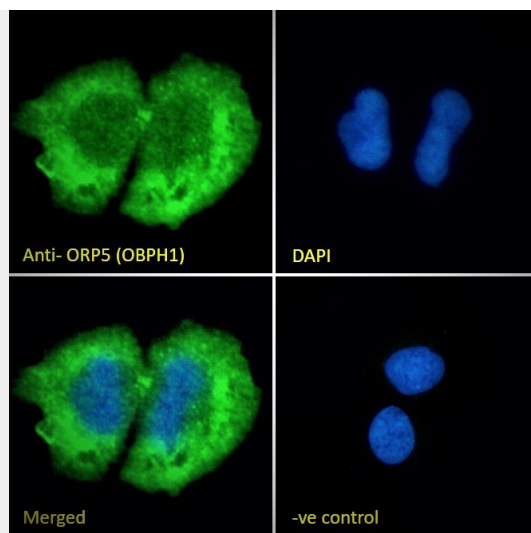
EB06154 (0.1µg/ml) staining of Jurkat cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

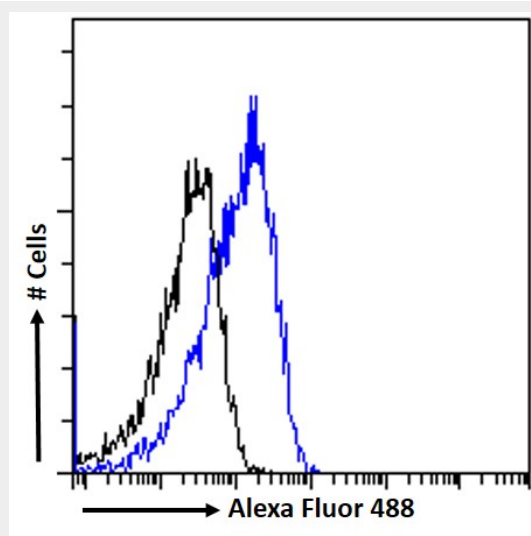
EB06154 (0.3 μ g/ml) staining of Rat Spleen lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB06154 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 μ g/ml) followed by Alexa Fluor 488 secondary antibody (2 μ g/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 μ g/ml) followed by Alexa Fluor 488 secondary antibody (2 μ g/ml).



EB06154 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06154 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

Goat Anti-ORP5 (OBPH1) 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. Transcript variants encoding different isoforms have been identified.

Goat Anti-ORP5 (OBPH1) Antibody - References

Genome-wide association study of alcohol dependence implicates a region on chromosome 11. Edenberg HJ, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201924.
Oxysterol binding protein-related protein-5 is related to invasion and poor prognosis in pancreatic cancer. Koga Y, et al. Cancer Sci, 2008 Dec. PMID 19032366.

Proteomic analysis reveals Hrs ubiquitin-interacting motif-mediated ubiquitin signaling in multiple cellular processes. Pridgeon JW, et al. FEBS J, 2009 Jan. PMID 19019082.

Systematic identification of SH3 domain-mediated human protein-protein interactions by peptide array target screening. Wu C, et al. Proteomics, 2007 Jun. PMID 17474147.

Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.