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ORP3 Antibody (N-Term)

Peptide-affinity purified goat antibody
Catalog # AF2376a

Specification

ORP3 Antibody (N-Term) - Product Information

Application	**E**
Primary Accession	Q9H4L5
Other Accession	NP_056365.1, NP_663160.1, NP_663161.1, NP_663162.1, 26031, 71720 (mouse)
Predicted	**Human, Mouse, Rat, Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**101224**

ORP3 Antibody (N-Term) - Additional Information

Gene ID 26031

Other Names
Oxysterol-binding protein-related protein 3, ORP-3, OSBP-related protein 3, OSBPL3, KIAA0704, ORP3, OSBP3

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 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
ORP3 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

ORP3 Antibody (N-Term) - Protein Information

Name OSBPL3

Synonyms KIAA0704, ORP3, OSBP3

Function
Phosphoinositide-binding protein which associates with both cell and endoplasmic reticulum (ER) membranes (PubMed:16143324). Can bind to the ER membrane protein VAPA and recruit VAPA to plasma membrane sites, thus linking these intracellular compartments (PubMed:<a

href="http://www.uniprot.org/citations/25447204" target="_blank">25447204). The ORP3-VAPA complex stimulates RRAS signaling which in turn attenuates integrin beta-1 (ITGB1) activation at the cell surface (PubMed:18270267, PubMed:25447204). With VAPA, may regulate ER morphology (PubMed:16143324). Has a role in regulation of the actin cytoskeleton, cell polarity and cell adhesion (PubMed:18270267). Binds to phosphoinositides with preference for PI(3,4)P2 and PI(3,4,5)P3 (PubMed:16143324). Also binds 25-hydroxycholesterol and cholesterol (PubMed:17428193).

Cellular Location
Endoplasmic reticulum membrane; Peripheral membrane protein. Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein. Cell projection, filopodium tip. Nucleus membrane; Peripheral membrane protein. Note=Co-localizes with OSBPL6 at contact sites between the plasma membrane and the endoplasmic reticulum {ECO:0000250|UniProtKB:Q9DBS9}

Tissue Location
Expressed in a subset of small lymphocytes (at protein level). Expressed at high concentration in kidney, lymph node and thymus. Expressed at moderate concentration in stomach, jejunum, ileum, appendix, spleen, leukocytes, trachea, lung and thyroid gland Expressed at low concentration in whole brain, esophagus, duodenum, ileocecum, colon, skeletal muscle, bone marrow, placenta and mammary gland (PubMed:14593528). Isoform 1a, isoform 1b, isoform 1c and isoform 1d are highly expressed in brain, bone marrow, colon, kidney, lung, skeletal muscle, spleen, thymus and thyroid. Not expressed in heart and liver. Isoform 2a, isoform 2b, isoform 2c and isoform 2d are expressed in brain, bone marrow, kidney, skeletal muscle, spleen, thymus and thyroid. Not expressed in heart, liver and lung (PubMed:12590732)

ORP3 Antibody (N-Term) - 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

ORP3 Antibody (N-Term) - Images

ORP3 Antibody (N-Term) - Background

This antibody is expected to recognise all reported isoforms (NP_056365.1; NP_663160.1; NP_663161.1; NP_663162.1).

ORP3 Antibody (N-Term) - References

ORP-3, a human oxysterol-binding protein gene differentially expressed in hematopoietic cells. Gregorio-King CC, Collier GR, McMillan JS, Waugh CM, McLeod JL, Collier FM, Kirkland MA. Blood. 2001 Oct 1;98(7):2279-81. PMID: 11568019