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AOC3 / VAP1 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3131a

Specification

AOC3 / VAP1 Antibody (internal region) - Product Information

Application	**WB, E**
Primary Accession	Q16853
Other Accession	NP_003725.1, 8639
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**84622**

AOC3 / VAP1 Antibody (internal region) - Additional Information

Gene ID 8639

Other Names
Membrane primary amine oxidase, 1.4.3.21, Copper amine oxidase, HPAO, Semicarbazide-sensitive amine oxidase, SSAO, Vascular adhesion protein 1, VAP-1, AOC3, VAP1

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

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
AOC3 / VAP1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

AOC3 / VAP1 Antibody (internal region) - Protein Information

Name AOC3 (HGNC:550)

Synonyms VAP1

Function

Catalyzes the oxidative deamination of primary amines to the corresponding aldehydes with the concomitant production of hydrogen peroxide and ammonia (PubMed:19588076, PubMed:24304424, PubMed:9653080). Has a preference for the primary monoamines methylamine and benzylamine (PubMed:19588076, PubMed:9653080). Could also act on 2-phenylethylamine but much less efficiently (PubMed:19588076). At endothelial cells surface can also function as a cell adhesion protein that participates in lymphocyte extravasation and recirculation by mediating the binding of lymphocytes to peripheral lymph node vascular endothelial cells in an L-selectin-independent fashion (PubMed:9254657, PubMed:9653080).

Cellular Location
Cell membrane; Single-pass type II membrane protein

Tissue Location
Strongly expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. Also highly expressed in appendix, lung and small intestine. Expressed also in adipose tissue, in bone marrow, colon, heart, kidney, ovary, pancreas, placenta, prostate, skeletal muscle, spleen and testis. Isoform 2 seems to be the predominant transcript in fetal kidneys, fetal cartilage and fetal tonsils. The highest relative expression of isoform 2 occurs in skeletal muscle, heart, pancreas, kidney, and lung

AOC3 / VAP1 Antibody (internal region) - 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

AOC3 / VAP1 Antibody (internal region) - Images

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AF3131a (0.1 µg/ml) staining of A549 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

AOC3 / VAP1 Antibody (internal region) - References

Ischemia-reperfusion injury is attenuated in VAP-1-deficient mice and by VAP-1 inhibitors. Kiss J, Jalkanen S, FÃ¼lÃ¶p F, Savunen T, Salmi M, European journal of immunology 2008 Nov 38 (11): 3041-9. PMID: 18991279