10320 Camino Santa Fe, Suite G
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AOC3 / VAP-1 Antibody (Internal)

Goat Polyclonal Antibody

Catalog # ALS12458

Specification

AOC3 / VAP-1 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	Q16853
Reactivity	**Human, Hamster**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**85kDa KDa**

AOC3 / VAP-1 Antibody (Internal) - 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

Target/Specificity
Human AOC3 / VAP-1.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
AOC3 / VAP-1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

AOC3 / VAP-1 Antibody (Internal) - 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:9653080, PubMed:19588076, PubMed:24304424). Has a preference for the primary monoamines methylamine and benzylamine (PubMed:9653080, PubMed:19588076). 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:9653080, PubMed:9254657).

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

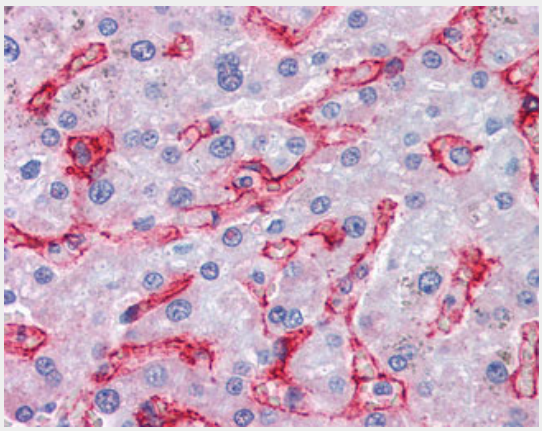
Tissue Location
Strongly expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. Also highly expressed in appendix, lung and small intestine. Expressed also in adipose tissue, in bone marrow, colon, heart, kidney, ovary, pancreas, placenta, prostate, skeletal muscle, 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 / VAP-1 Antibody (Internal) - 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 / VAP-1 Antibody (Internal) - Images



Anti-AOC3 / VAP-1 antibody IHC of human liver.

AOC3 / VAP-1 Antibody (Internal) - Background

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. Has semicarbazide-sensitive (SSAO) monoamine oxidase activity. May play a role in adipogenesis.

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AOC3 / VAP-1 Antibody (Internal) - References

Zhang X.,et al.Gene 179:279-286(1996).
Smith D.J.,et al.J. Exp. Med. 188:17-27(1998).
Zhang Q.,et al.Gene 318:45-53(2003).
Kaitaniemi S.,et al.PLoS ONE 8:E54151-E54151(2013).
Ota T.,et al.Nat. Genet. 36:40-45(2004).