

AOC3 / VAP-1 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS12458**Specification**

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

Application	IHC-P, E
Primary Accession	Q16853
Reactivity	Human, Hamster
Host	Goat
Clonality	Polyclonal
Calculated MW	85kDa KDa
Dilution	IHC-P~~N/A E~~N/A

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:[19588076](http://www.uniprot.org/citations/19588076), PubMed:[24304424](http://www.uniprot.org/citations/24304424), PubMed:[9653080](http://www.uniprot.org/citations/9653080)). Has a preference for the primary monoamines methylamine and benzylamine (PubMed:[19588076](http://www.uniprot.org/citations/19588076), PubMed:[9653080](http://www.uniprot.org/citations/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

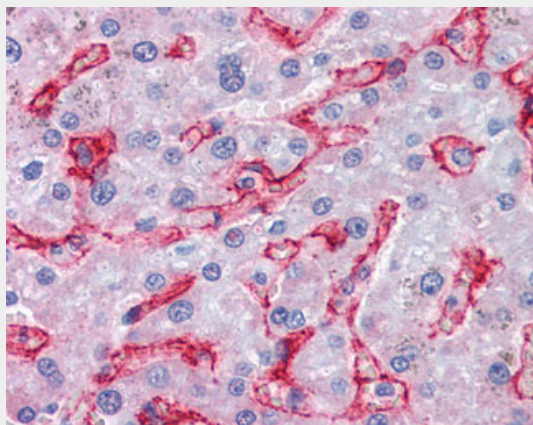
Strongly expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. Also highly expressed in appendix, lung and small intestine. Expressed also in adipose tissue, in bone marrow, colon, heart, kidney, ovary, pancreas, placenta, prostate, skeletal muscle, spleen and 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 / 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 Cytometry](#)
- [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.

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).