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Anti-AOC3 / VAP-1 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18588

Product Information

Application	WB, IHC-P, IF
Primary Accession	Q16853
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	84622

Additional Information

Gene ID	8639
Alias Symbol	AOC3
Other Names	AOC3, Copper amine oxidase, HPAO, Membrane primary amine oxidase, SSAO, VAP-1, VAP1, Vascular adhesion protein 1
Target/Specificity	Human AOC3 / VAP-1
Reconstitution & Storage	Affinity purified
Precautions	Anti-AOC3 / VAP-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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