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AOC3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8538c

Specification

AOC3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q16853

AOC3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8639

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8538c was selected from the Center region of human AOC3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AOC3 Antibody (Center) Blocking Peptide - Protein Information

AOC3 Antibody (Center) Blocking Peptide - Background

Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes in the presence of copper and quinone cofactor. The product is a major protein on the adipocyte plasma membrane. It has adhesive properties and also has functional monoamine oxidase activity.

AOC3 Antibody (Center) Blocking Peptide - References

Lalor,P.F., et.al., J. Immunol. 169 (2), 983-992 (2002)Salmi,M., et.al., Am. J. Pathol. 161 (6), 2255-2262 (2002)

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Name AOC3

Synonyms VAP1

Function
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.

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 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides