



# AOC3 Monoclonal Antibody

Catalog No	BYmab-07251
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	AOC3 VAP1
Protein Name	Membrane primary amine oxidase (EC 1.4.3.21) (Copper amine oxidase) (HPAO) (Semicarbazide-sensitive amine oxidase) (SSAO) (Vascular adhesion protein 1) (VAP-1)
Immunogen	Synthesized peptide derived from human protein . at AA range: 510-590
Specificity	AOC3 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	83kD
Cell Pathway	Cell membrane ; Single-pass type II membrane protein .
Tissue Specificity	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.
Function	catalytic activity:RCH(2)NH(2) + H(2)O + O(2) = RCHO + NH(3) + H(2)O(2).,cofactor:binds 1 copper ion per subunit.,cofactor:binds 2 calcium ions per subunit.,cofactor:contains 1 topaquinone per subunit.,function:Cell adhesion protein that participates in lymphocyte recirculation by mediating the binding of lymphocytes to peripheral lymph node vascular endothelial cells in an

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L-selectin-independent fashion. Has a monoamine oxidase activity.,PTM:N- and O-glycosylated.,PTM:Topaquinone (TPQ) is generated by copper-dependent autoxidation of a specific tyrosyl residue.,similarity:Belongs to the copper/topaquinone oxidase family.,subunit:Homodimer; disulfide-linked.,tissue specificity: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 at lower levels in bone marrow, colon,

#### Background

This gene encodes a member of the semicarbazide-sensitive amine oxidase family. Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes in the presence of copper and quinone cofactor. The encoded protein is localized to the cell surface, has adhesive properties as well as monoamine oxidase activity, and may be involved in leukocyte trafficking. Alterations in levels of the encoded protein may be associated with many diseases, including diabetes mellitus. A pseudogene of this gene has been described and is located approximately 9-kb downstream on the same chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013],

#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images