

**AOC3 / VAP1 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3131a****Specification**

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**AOC3 / VAP1 Antibody (internal region) - Product Information**

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Application       | WB, E                                              |
| Primary Accession | <a href="#">Q16853</a>                             |
| Other Accession   | <a href="#">NP_003725.1</a> , <a href="#">8639</a> |
| Reactivity        | Human                                              |
| Predicted         | Mouse, Rat                                         |
| Host              | Goat                                               |
| Clonality         | Polyclonal                                         |
| Concentration     | 0.5 mg/ml                                          |
| Isotype           | IgG                                                |
| Calculated MW     | 84622                                              |

**AOC3 / VAP1 Antibody (internal region) - 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**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

AOC3 / VAP1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**AOC3 / VAP1 Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/19588076" target="\_blank">19588076</a>, PubMed:<a href="http://www.uniprot.org/citations/24304424" target="\_blank">24304424</a>, PubMed:<a href="http://www.uniprot.org/citations/9653080" target="\_blank">9653080</a>). Has a preference for the primary monoamines methylamine and benzylamine (PubMed:<a href="http://www.uniprot.org/citations/19588076" target="\_blank">19588076</a>, PubMed:<a href="http://www.uniprot.org/citations/9653080" target="\_blank">9653080</a>). Could also act on 2-phenylethylamine but much less efficiently (PubMed:<a href="http://www.uniprot.org/citations/19588076" target="\_blank">19588076</a>). 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:<a href="http://www.uniprot.org/citations/9254657" target="\_blank">9254657</a>, PubMed:<a href="http://www.uniprot.org/citations/9653080" target="\_blank">9653080</a>).

### **Cellular Location**

Cell membrane; Single-pass type II membrane protein

### **Tissue Location**

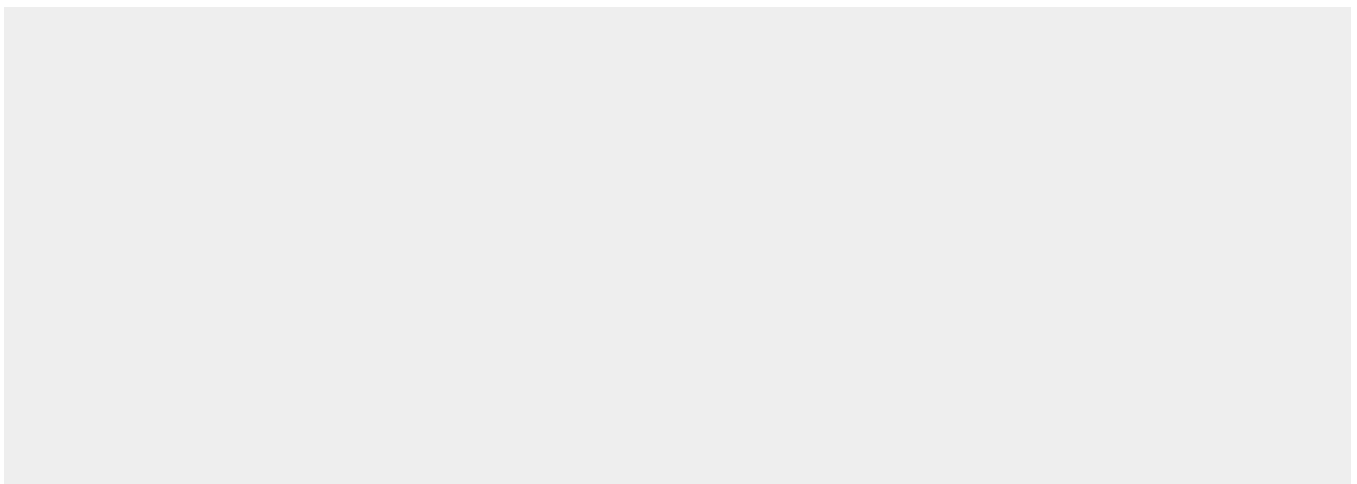
Strongly expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. Also highly expressed in appendix, lung and small intestine. Expressed also in adipose tissue, in bone marrow, colon, heart, kidney, ovary, pancreas, placenta, prostate, skeletal muscle, spleen and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

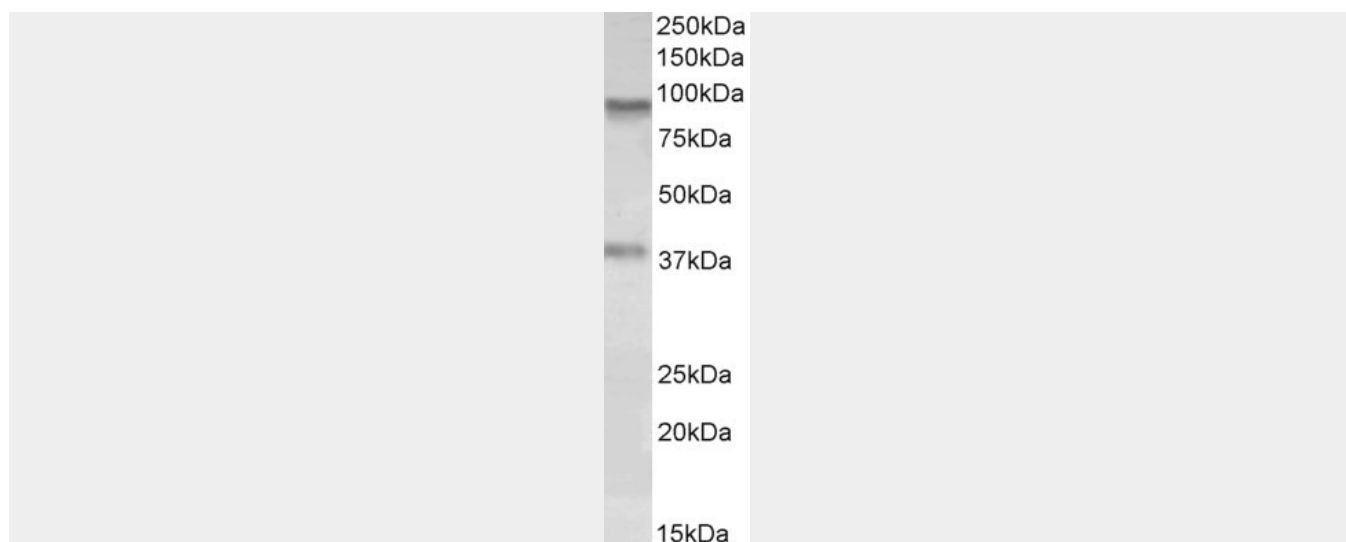
### **AOC3 / VAP1 Antibody (internal region) - Protocols**

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 / VAP1 Antibody (internal region) - Images**





AF3131a (0.1 µg/ml) staining of A549 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **AOC3 / VAP1 Antibody (internal region) - References**

Ischemia-reperfusion injury is attenuated in VAP-1-deficient mice and by VAP-1 inhibitors. Kiss J, Jalkanen S, Fülöp F, Savunen T, Salmi M, European journal of immunology 2008 Nov 38 (11): 3041-9. PMID: 18991279