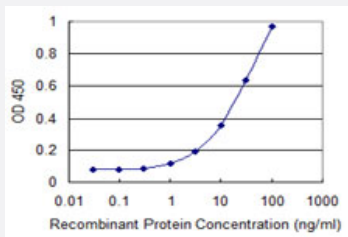


# AOC3 monoclonal antibody (M06), clone 4B8

Catalog # H00008639-M06

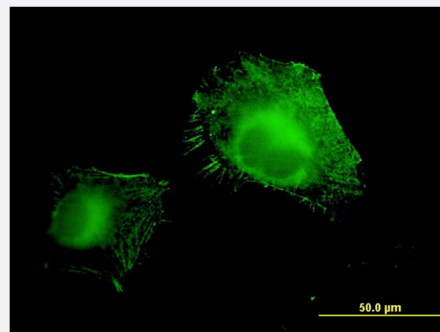
Size 100 ug

## Applications



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AOC3 is 0.3 ng/ml as a capture antibody.



### Immunofluorescence

Immunofluorescence of monoclonal antibody to AOC3 on HeLa cell . [antibody concentration 10 ug/ml]

## Specification

|                     |                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------|
| Product Description | Mouse monoclonal antibody raised against a partial recombinant AOC3.                                              |
| Immunogen           | AOC3 (NP_003725, 351 a.a. ~ 450 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Sequence            | DVRFQGERLVYEISLQEALAIYGGNSPAAMTTRYVDGGFGMGKYTTPLTRGVDCPYLATYVDWHF LLESQAPKTIRDAFCVFEQNNQGLPLRRHSDLYSH             |
| Host                | Mouse                                                                                                             |
| Reactivity          | Human                                                                                                             |
| Isotype             | IgG2a Kappa                                                                                                       |

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Quality Control Testing | Antibody Reactive Against Recombinant Protein.                           |
| Storage Buffer          | In 1x PBS, pH 7.4                                                        |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AOC3 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to AOC3 on HeLa cell . [antibody concentration 10 ug/ml]

## Gene Info — AOC3

|                     |                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">8639</a>                                                                                                                                                                                                                                                                                                                                                                            |
| GeneBank Accession# | <a href="#">NM_003734</a>                                                                                                                                                                                                                                                                                                                                                                       |
| Protein Accession#  | <a href="#">NP_003725</a>                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Name           | AOC3                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Alias          | HPAO, SSAO, VAP-1, VAP1                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Description    | amine oxidase, copper containing 3 (vascular adhesion protein 1)                                                                                                                                                                                                                                                                                                                                |
| Omim ID             | <a href="#">603735</a>                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Summary        | 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. A pseudogene for this gene has been described and is located approximately 9-kb downstream. [provided by RefSeq] |
| Other Designations  | amine oxidase, copper containing 3 copper amine oxidase semicarbazide-sensitive amine oxidase vascular adhesion protein 1                                                                                                                                                                                                                                                                       |

## Publication Reference

- [Alteration of pancreatic carcinoma and promyeloblastic cell adhesion in liver microvasculature by co-culture of hepatocytes, hepatic stellate cells and endothelial cells in a physiologically-relevant model.](#)

Danoy M, Shinohara M, Rizki-Safitri A, Collard D, Senez V, Sakai Y.

Integrative Biology : Quantitative Biosciences from Nano to Macro 2017 Apr; 9(4):350.

Application: IF, Human, Rat, HUVEC, LX-2 cells, Rat hepatocytes

## Pathway

- [beta-Alanine metabolism](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Glycine](#)
- [Isoquinoline alkaloid biosynthesis](#)
- [Metabolic pathways](#)
- [Phenylalanine metabolism](#)
- [Tropane](#)
- [Tyrosine metabolism](#)