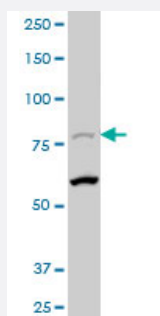


AOC2 polyclonal antibody (A01)

Catalog # H00000314-A01

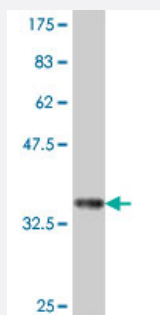
Size 50 uL

Applications



Western Blot (Cell lysate)

AOC2 polyclonal antibody (A01), Lot # 051206JC01 Western Blot analysis of AOC2 expression in IMR-32 (Cat # L008V1).



Western Blot detection against Immunogen (37.11 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant AOC2.
Immunogen	AOC2 (NP_033720, 169 a.a. ~ 268 a.a) partial recombinant protein with GST tag.
Sequence	RAEFTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPRGLRSGDRATWMALYHNISGVGLF LHPVGLELLLDHRAIDPAHWTVQQVFYLGHHYADL
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.11 KDa) .

Storage Buffer	50 % glycerol
----------------	---------------

Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
---------------------	--

Applications

- Western Blot (Cell lysate)

AOC2 polyclonal antibody (A01), Lot # 051206JC01 Western Blot analysis of AOC2 expression in IMR-32 (Cat # L008V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — AOC2

Entrez GeneID	314
---------------	---------------------

GeneBank Accession#	NM_009590
---------------------	---------------------------

Protein Accession#	NP_033720
--------------------	---------------------------

Gene Name	AOC2
-----------	------

Gene Alias	DAO2, RAO
------------	-----------

Gene Description	amine oxidase, copper containing 2 (retina-specific)
------------------	--

Omim ID	602268
---------	------------------------

Gene Ontology	Hyperlink
---------------	---------------------------

Gene Summary	Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes and ammonia in the presence of copper and quinone cofactor. This gene shows high sequence similarity to copper amine oxidases from various species ranging from bacteria to mammals. The protein contains several conserved motifs including the active site of amine oxidases and the histidine residues that likely bind copper. It may be a critical modulator of signal transmission in retina, possibly by degrading the biogenic amines dopamine, histamine, and putrescine. This gene may be a candidate gene for hereditary ocular diseases. Alternate splicing results in multiple transcript variants. [provided by RefSeq]
--------------	--

Other Designations	amine oxidase, copper containing 2
--------------------	------------------------------------

Publication Reference

- [The unique substrate specificity of human AOC2, a semicarbazide-sensitive amine oxidase.](#)

Kaitaniemi S, Elovaara H, Gron K, Kidron H, Liukkonen J, Salminen T, Salmi M, Jalkanen S, Elimä K.

Cellular and Molecular Life Sciences 2009 Aug; 66(16):2743.

Application: Flow Cyt, IF, IHC-Fr, IHC-P, Human, HEK 293 cells, Human retina

Pathway

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