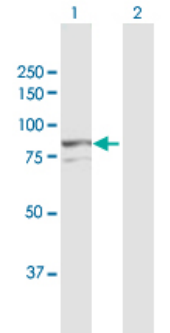
MaxPab®

# AOC2 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000314-D01P Size 100 ug

## Applications




### Western Blot (Transfected lysate)

Western Blot analysis of AOC2 expression in transfected 293T cell line (H00000314-T01) by AOC2 MaxPab polyclonal antibody.

Lane 1: AOC2 transfected lysate(83.70 KDa).
Lane 2: Non-transfected lysate.

## Specification

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|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against a full-length human AOC2 protein. |
| **Immunogen** | AOC2 (NP_033720.2, 1 a.a. ~ 756 a.a) full-length human protein. |
| **Sequence** | MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGQSQLFADLSREELTA VMRFLTQRLGPGLVDAAQAQPSDNCIFSVELQLPPKAAALAHLDRGSPPPAREALAIVLFGGQP QPNVSELVVGPLPHPSYMRDVTVERHGGPLPYHRRPVLRAEFTQMWRHLKEVELPKAPIFLSST FNYNGSTLAAVHATPRGLRSGDRATWMALYHNISGVGLFLHPVGLELLLDHRALDPAHWTVQQV FYLGHYYADLGQLEREFKSGRLEVVRVPLPPPPNGASSLRSRNSPGPLPPLQFSPQGSQYSVQGN LVVSSLWSFTFGHGVFSGLRIFDVRFQGERIAYEVSVQECVSIYGADSPKTMLTRYLDSSFGLGRN SRGLVRGVDCPYQATMVDIHILVGKGAVQLLPGAVCVFEEAQGLPLRRHHNYLQNHFYGGLASSA LVVRSVSSVGNYDYIWDFVLYPNGALEGRVHATGYINTAFLKGGEEGLLFGNRVGERVLGTVHTH AFHFKLDLDVAGLKNWVVAEDVVFKPVAAPWNPEHWLQRPQLTRQVLGKEDLTAFSLGSPLPR YLYLASNQTNAWGHQRGYRIQIHSPLGIHIPLESDMERALSWGRYQLVVTQRKEEESQSSSIYHQN DIWTPTVTFADFINNETLLGEDLVAWVTASFLHIPHAEDIPNTVTLGNRVGFLLRPYNFFDEDPSIFS PGSVYFEKGQDAGLCSINPVACLPDLAACVPDLPPFSYHGF |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Quality Control Testing** | Antibody reactive against mammalian transfected lysate. |

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|---|---|
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

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  Protocol Download

## Gene Info — AOC2

| | |
|---|---|
| **Entrez GeneID** | 314 |
| **GeneBank Accession#** | NM_009590.2 |
| **Protein Accession#** | NP_033720.2 |
| **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 |

## Pathway

- beta-Alanine metabolism
- Biosynthesis of alkaloids derived from ornithine
- Glycine
- Isoquinoline alkaloid biosynthesis
- Metabolic pathways
- Phenylalanine metabolism
- Tropane
- Tyrosine metabolism