

Product datasheet for **AP43408PU-N**

AOC2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blotting (0.2 - 1 µg/ml).
Reactivity:	Bovine, Canine, Chicken, Human, Mouse, Rat, Zebrafish, African clawed frog
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide directed towards the middle region of human AOC2
Formulation:	State: Aff - Purified State: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purification:	Purified using peptide immunoaffinity column
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	amine oxidase, copper containing 2
Database Link:	Entrez Gene 314 Human O75106



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Background:

Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes and ammonia in the presence of copper and quinone cofactor. 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. 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.

Synonyms:

DAO2; RAO; SSAO

Protein Families:

Transmembrane

Protein Pathways:

beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism

Product images:


Human Lung; WB Suggested Anti-AOC2 Antibody Titration: 0.2-1 ug/ml. ELISA Titer: 1:1562500. Positive Control: Human Lung; AOC2 antibody - middle region (AP43408PU-N) in Human Lung cells using Western Blot