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AOC1 Rabbit pAb

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Catalog # AP58806

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P19801
Reactivity	Mouse
Predicted	Rat, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85378
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AOC1
Epitope Specificity	601-689/751
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted, extracellular space.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Catalyzes the degradation of compounds such as putrescine, histamine, spermine, and spermidine, substances involved in allergic and immune responses, cell proliferation, tissue differentiation, tumor formation, and possibly apoptosis. Placental DAO is thought to play a role in the regulation of the female reproductive function.

Additional Information

Gene ID	26
Other Names	Diamine oxidase [copper-containing], Diamine oxidase, 1.4.3.22, Amiloride-binding protein, Amiloride-binding protein 1 {ECO:0000312|HGNC:HGNC:80}, Amine oxidase copper domain-containing protein 1 {ECO:0000312|HGNC:HGNC:80}, Histaminase, Kidney amine oxidase, KAO, KDAO, AOC1 {ECO:0000303|PubMed:19764817, ECO:0000312|HGNC:HGNC:80}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

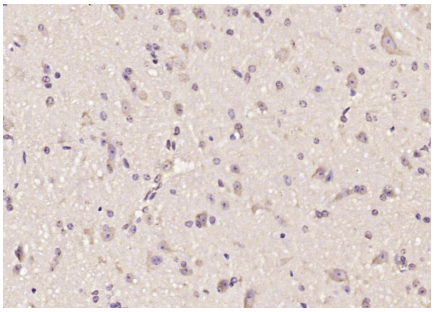
Protein Information

Name	AOC1 {ECO:0000303|PubMed:19764817, ECO:0000312|HGNC:HGNC:80}
Function	Catalyzes the oxidative deamination of primary amines to the corresponding aldehydes with the concomitant production of hydrogen peroxide and ammonia (PubMed:12072962, PubMed:19764817, PubMed:239684, PubMed:8144586). Its preferred substrates are the diamines histamine and 1-methylhistamine and it could therefore play a role in allergic and immune responses (PubMed:12072962). Has a broad specificity for diamines and can also act on cadaverine and putrescine, two products of amino acid catabolism (PubMed:12072962). It could also act on polyamines, like spermidine and spermine though less efficiently, and regulate various biological processes (PubMed:12072962, PubMed:239684).
Cellular Location	Secreted, extracellular space. Cell membrane; Peripheral membrane protein; Extracellular side
Tissue Location	Widely expressed with higher expression in placenta and kidney.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DAO1) Polyclonal Antibody, Unconjugated (AP58806) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.