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Anti-ABP1 Picoband Antibody

Catalog # ABO11658

Product Information

Application	WB
Primary Accession	P19801
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Amiloride-sensitive amine oxidase [copper-containing](AOC1) detection. Tested with WB in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	26
Other Names	Amiloride-sensitive amine oxidase [copper-containing], DAO, Diamine oxidase, 1.4.3.22, Amiloride-binding protein 1, Amine oxidase copper domain-containing protein 1, Histaminase, Kidney amine oxidase, KAO, AOC1, ABP1, DAO1
Calculated MW	85378
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Rat
Subcellular Localization	Secreted, extracellular space.
Tissue Specificity	Placenta and kidney.
Source	Eukaryota
Protein Name	Amiloride-sensitive amine oxidase [copper-containing]
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ABP1 (144-180aa STAEYALLYHTLQEATKPLHQFFLNTTGFSFQDCHDR), different from the related mouse sequence by ten amino acids, and from the related rat sequence by eight amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

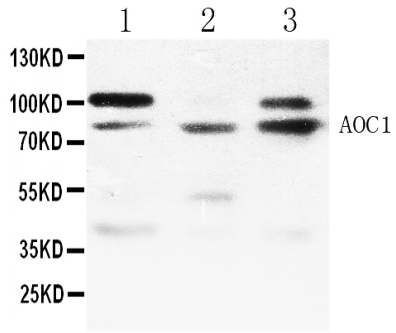
Protein Information

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

This gene encodes a metal-binding membrane glycoprotein that oxidatively deaminates putrescine, histamine, and related compounds. The encoded protein is inhibited by amiloride, a diuretic that acts by closing epithelial sodium ion channels. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. 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.

Images



Western blot analysis of ABP1 expression in NRK whole cell lysates (lane 1), 293T whole cell lysates (lane 2) and MCF-7 whole cell lysates (lane 3). ABP1 at 85KD was detected using rabbit anti- ABP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11658) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

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