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Anti-ABP1 Picoband Antibody
Catalog # ABO11658

Specification

Anti-ABP1 Picoband Antibody - 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.

Anti-ABP1 Picoband Antibody - 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 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
Secreted, extracellular space.

Tissue Specificity
Placenta and kidney.

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.**

Anti-ABP1 Picoband Antibody - 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.

Anti-ABP1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ABP1 Picoband Antibody - Images

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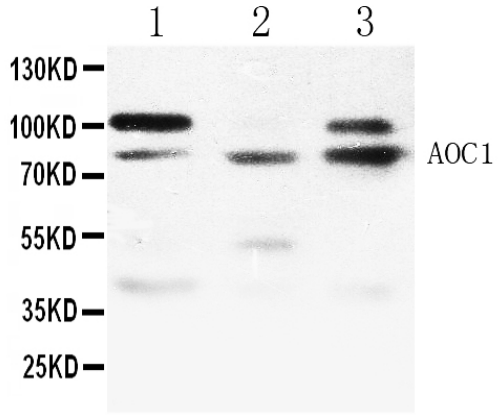

Western blot analysis of ABP1 expression in NRK whole cell lysates (lane 1), 293T whole cell lysates (lane 2) and MCF-7 whole cell lysates (lane 3). ABP1 at 85KD was detected using rabbit anti- ABP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11658) at 0.5 ??g/mL. The blot was developed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

Anti-ABP1 Picoband Antibody - 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.