

**DATASHEET**

**KAO Rabbit Polyclonal Antibody**

CAT. NO. APA12837

**KEY FEATURES**

Target	KAO	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

Catalyzes the oxidative deamination of primary amines to the corresponding aldehydes with the concomitant production of hydrogen peroxide and ammonia . Its preferred substrates are the diamines histamine and 1-methylhistamine and it could therefore play a role in allergic and immune responses . Has a broad specificity for diamines and can also act on cadaverine and putrescine, two products of amino acid catabolism . It could also act on polyamines, like spermidine and spermine though less efficiently, and regulate various biological processes .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to KAO
Specificity	Recognizes endogenous levels of KAO protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human KAO
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 85; Observed: 105 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ABP1; DAO1; Amiloride-sensitive amine oxidase [copper-containing]; DAO; Diamine oxidase; Amiloride-binding protein 1; Amine oxidase copper domain-containing protein 1; Histaminase; Kidney amine oxidase; KAO
Gene Symbol	AOC1
Entrez Gene	26(Human)
SwissProt	P19801(Human); Q8JZQ5(Mouse); P36633(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

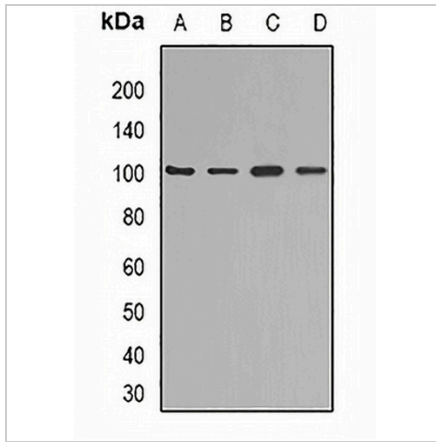
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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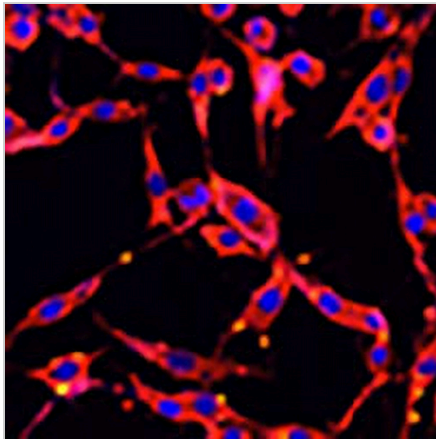
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**DATA**



Western blot analysis of KAO expression in mouse liver (A), mouse heart (B), rat kidney (C), rat heart (D) whole cell lysates. (Predicted band size: 85; 87 kD; Observed band size: 105 kD)



Immunofluorescent analysis of KAO staining in PC12 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.