

Mouse Diamine oxidase (DAO) ELISA Kit

Catalog No: #EK7633

Package Size: #EK7633-1 48T #EK7633-2 96T

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Description

Product Name	Mouse Diamine oxidase (DAO) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ABP; AOC1; DAO; DAO1; KAO; amiloride binding protein 1 amiloride-binding protein amiloride-binding protein-1 amiloride-sensitive amine oxidase diamine oxidase histaminase kidney amine oxidase
Accession No.	Q8JZQ5
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:13.2 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate ABP1 in samples. An antibody specific for ABP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyABP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ABP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ABP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:On the basis of its primary structure, the amiloride-binding protein (EC 1.4.3.6) is 713 amino acids long, with a 19-amino acid signal peptide. Expressed in cultured cells, the mRNA yields a glycoprotein that binds amiloride and amiloride analogs with affinities similar to the amiloride receptor associated with the apical Na⁺ channel in pig kidney membranes and is immunoprecipitated with monoclonal antibodies raised against pig kidney amiloride-binding protein. Barby et al. (1990) pointed out that amiloride-sensitive Na⁺ channels are also present in airway epithelia, where they play an important role in fluid secretion. Amiloride inhibits the excessive absorption of Na⁺ and liquid that takes place in airway epithelia of patients with cystic fibrosis, and amiloride aerosol therapy has been tried for the treatment of lung disease in CF.

Published Papers

el et al., Daily Dose of Bovine Lactoferrin Prevents Ethanol-Induced Liver Injury and Death in Male Mice by Regulating Hepatic Alcohol Metabolism and

Modulating Gut Microbiota. In Mol Nutr Food Res on 2021 Sep by Deming Li, Qian He,et al..PMID:34331394, , (2021)

[PMID:34331394](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.