

# Mouse Monoamine oxidase B (MAOB) ELISA Kit

Catalog No: #EK9947



Package Size: #EK9947-1 48T #EK9947-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Mouse Monoamine oxidase B (MAOB) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP1-201D17__B.1; MGC26382; MAO; brain MAO; platelet adrenalin oxidase tyramine oxidase
Accession No.	Q8BW75
Uniprot	Q8BW75
GeneID	109731;
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:12.4 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 MAOB in samples. An antibody specific for MAOB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAOB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAOB 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 MAOB bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Monoamine oxidase B, is a protein belongs to the flavin monoamine oxidase family. It is an enzyme located in the mitochondrial outer membrane. It catalyzes the oxidative deamination of biogenic and xenobiotic amines and plays an important role in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. This protein preferentially degrades benzylamine and phenylethylamine.Edmondson et al. described structural features of the human enzyme: it has a hydrophobic bipartite elongated cavity that (for the "open" conformation) occupies a combined volume close to 700 Å<sup>3</sup>. hMAO-A has a single cavity that exhibits a rounder shape and is larger in volume than the "substrate cavity" of hMAO-B.

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Note: This product is for in vitro research use only