

## Rat Monoamine oxidase A (MAOA) ELISA Kit

Catalog No: #EK9952



Package Size: #EK9952-1 48T #EK9952-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Monoamine oxidase A (MAOA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	RP1-201D17__B.2;
Accession No.	P21396
Uniprot	P21396
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:125.00-8000 pg/mL

Sensitivity:55 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:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate MAOA in samples. An antibody specific for MAOA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAOA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAOA 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 MAOA bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Monoamine oxidase A is an isozyme of monoamine oxidase. It preferentially deaminates norepinephrine (noradrenaline), epinephrine (adrenaline), serotonin, and dopamine (dopamine is equally deaminated by MAO-A and MAO-B). It is inhibited by clorgiline and bexloxtone.This gene encodes monoamine oxidase A, an enzyme that degrades amine neurotransmitters, such as dopamine, norepinephrine, and serotonin. The protein localizes to the outer mitochondrial membrane. The gene is adjacent to a related gene (MAOB) on the opposite strand of chromosome X. Mutation in this gene results in monoamine oxidase deficiency, or Brunner syndrome. MAO-A levels in the brain as measured using positron emission tomography are elevated by an average of 28 percent in patients with major depressive disorder.

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Note: This product is for in vitro research use only