

Mouse Epoxide hydrolase 4 (EPHX4) ELISA Kit

Catalog No: #EK11264



Package Size: #EK11264-1 48T #EK11264-2 96T

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Description

Product Name	Mouse Epoxide hydrolase 4 (EPHX4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	ABHD7; EPHXRP; FLJ90341; abhydrolase domain containing 7
Accession No.	Q6IE26
Uniprot	Q6IE26
GeneID	384214;
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:62.5-4000 pg/mL

Sensitivity:27.2 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 EPHX4 in samples. An antibody specific for EPHX4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyEPHX4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for EPHX4 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 EPHX4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**EPHX4 belongs to the AB hydrolase superfamily.In contrast to other members of the AB hydrolase superfamily, lacks the conserved Ser residue at position 169, which is replaced by an Asp residue, suggesting it has no hydrolase activity. Epoxide hydrolase (also known as epoxide hydratase) functions in detoxication during drug metabolism. It converts epoxides to trans-dihydrodiols, which can be conjugated and excreted from the body. Epoxides result from the degradation of aromatic compounds. Epoxides are significant as cytochrome P450 oxidase metabolites of unsaturated carbon-carbon bonds, but are also mutagenic. Epoxide hydrolase is present in large quantity on endoplasmic reticulum.

Note: This product is for in vitro research use only