

Rat Epoxide hydrolase 2 (EPHX2) ELISA Kit | EPHX2 elisa kit

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CATALOG #
AAA246161

REACTIVITY
Rat

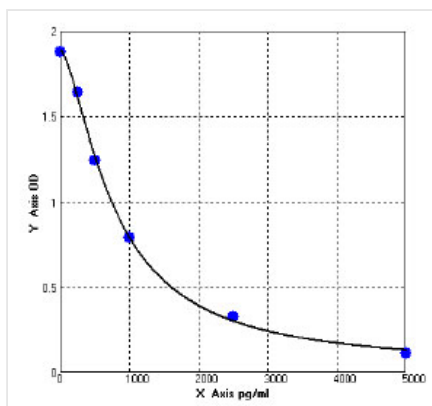
PRODUCT SYNONYMS

Epoxide hydrolase 2 (EPHX2); Rat Epoxide hydrolase 2 (EPHX2) ELISA Kit; EPHX2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of EPHX2. No significant cross-reactivity or interference between EPHX2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between EPHX2 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for EPHX2 elisa kit	Intended Uses: This EPHX2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat EPHX2. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: EPHX2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-EPHX2 antibody and an EPHX2-HRP conjugate. The assay sample and buffer are incubated together with EPHX2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the EPHX2 concentration since EPHX2 from samples and EPHX2-HRP conjugate compete for the anti-EPHX2 antibody binding site. Since the number of sites is limited, as more sites are occupied by EPHX2 from the sample, fewer sites are left to bind EPHX2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The EPHX2 concentration in each sample is interpolated from this standard curve.
References	Increase in the concentration of SEH protein in renal medulla of ISIAH rats with inherited stress-induced arterial hypertension. T. O. Abramova, M. A. Ryazanova, E. V. Antonov, O. E. Redina, & A. L. Markel (2017)

NCBI AND UNIPROT INFORMATION

NCBI GI #	75832164
NCBI GeneID	421999
NCBI Accession #	NP_001028817.1
NCBI GenBank Nucleotide #	NM_001033645.1
NCBI Official Full Name	epoxide hydrolase 2
NCBI Official Synonym Full Names	epoxide hydrolase 2, cytoplasmic
NCBI Official Symbol	EPHX2
NCBI Protein Information	epoxide hydrolase 2; soluble epoxide hydrolase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.