

Human Eosinophil peroxidase ELISA Kit | EPX elisa kit

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CATALOG #
AAA17323

REACTIVITY
Human

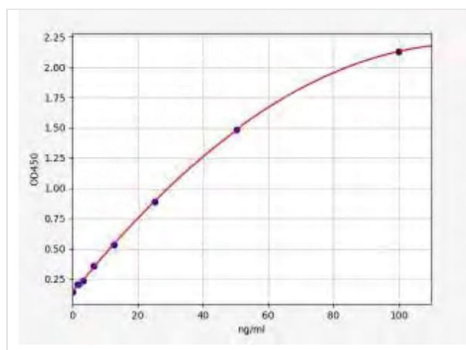
PRODUCT SYNONYMS

Eosinophil peroxidase; Human Eosinophil peroxidase ELISA Kit; EPX/EPER/EPO/EPP; EPX elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize EPX, no obvious cross reaction with other analogues
Sequence Length	715
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for EPX elisa kit	Background: Eosinophil peroxidase is a secreted hemoprotein that catalyzes oxidations of various substrates by hydrogen peroxide. Together with other leukocyte-derived enzymes, such as Myeloperoxidase,EPX plays an important role in the pathogenesis of asthma by mediating oxidative events that lead to the production of ROS (reactive oxygen species) and RNS (reactive nitrogen species). Diseases associated with EPX include Eosinophil Peroxidase Deficiency and Proctitis. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti EPX antibody was precoated onto the 96-well plate. The biotin conjugated anti EPX antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with EPX conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of EPX in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	182146
NCBI GeneID	8288
Molecular Weight	81,040 Da
NCBI Official Full Name	eosinophil peroxidase
NCBI Official Synonym Full Names	eosinophil peroxidase
NCBI Official Symbol	EPX
NCBI Official Synonym Symbols	EPO; EPP; EPXD; EPX-PEN
NCBI Protein Information	eosinophil peroxidase
UniProt Protein Name	Eosinophil peroxidase
UniProt Gene Name	EPX
UniProt Synonym Gene Names	EPER; EPO; EPP; EPO
UniProt Entry Name	PERE_HUMAN

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.