

Human Myeloperoxidase ELISA Kit | MPO elisa kit

Human Myeloperoxidase ELISA Kit

CATALOG #
AAA99540

REACTIVITY
Human

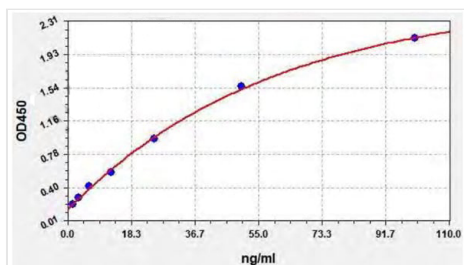
PRODUCT SYNONYMS

Myeloperoxidase; Human Myeloperoxidase ELISA Kit; MPO (Myeloperoxidase); MPO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize MPO, no obvious cross reaction with other analogues
Sequence Length	745
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 MPO elisa kit	Background: Myeloperoxidase (MPO) is an enzyme found in myeloid white blood cells. MPO is encoded by the MPO gene and highly expressed in myeloid cells. It plays a role in immune responses such as inflammation and infection by catalyzing oxidation reactions to produce strong oxidants such as hypochlorous acid, hydrogen peroxide, and hydroxyl radicals, which can kill and degrade invading microorganisms.MPO is also associated with certain diseases such as atherosclerosis, myocardial infarction, inflammatory bowel disease, and neurodegenerative diseases. Excessive expression of MPO and the oxidants generated by MPO catalysis may cause cellular damage and inflammatory reactions, thereby accelerating disease progression. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti MPO antibody was precoated onto the 96-well plate. The biotin conjugated anti MPO 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 MPO 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 MPO 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 #	4557759
NCBI GeneID	4353
NCBI Accession #	NP_000241.1
NCBI GenBank Nucleotide #	NM_000250.1
Molecular Weight	87,248 Da
NCBI Official Full Name	myeloperoxidase
NCBI Official Synonym Full Names	myeloperoxidase
NCBI Official Symbol	MPO
NCBI Protein Information	myeloperoxidase
UniProt Protein Name	Myeloperoxidase
UniProt Gene Name	MPO
UniProt Synonym Gene Names	MPO
UniProt Entry Name	PERM_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.