Overview

Product name: Human Myeloperoxidase ELISA Kit (MPO) ab119605
Detection method: Colorimetric
Sample type: Cell culture supernatant, Saliva, Urine, Serum, Cell Lysate, Hep Plasma, EDTA Plasma, Tissue Homogenate
Assay type: Sandwich (quantitative)
Sensitivity: < 10 pg/ml
Range: 312 pg/ml - 20000 pg/ml
Assay duration: Multiple steps standard assay
Species reactivity: Reacts with: Human

Product overview
Abcam's Human Myeloperoxidase (MPO) in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the accurate quantitative measurement of Myeloperoxidase in cell culture supernatants, cell lysate, tissue homogenates, serum, plasma (heparin, EDTA), saliva and urine.

A Myeloperoxidase specific mouse monoclonal antibody has been precoated onto 96-well plates. Standards and test samples are added to the wells and incubated. A biotinylated detection polyclonal antibody from goat specific for Myeloperoxidase is then added followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. TMB is then used to visualize the HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the Human Myeloperoxidase amount of sample captured in plate.

Get results in 90 minutes with Human Myeloperoxidase ELISA Kit (ab195212) from our SimpleStep ELISA® range.

Platform: Microplate

Properties
Storage instructions: Store at -20°C. Please refer to protocols.
Function

Part of the host defense system of polymorphonuclear leukocytes. It is responsible for microbicidal activity against a wide range of organisms. In the stimulated PMN, MPO catalyzes the production of hypohalous acids, primarily hypochlorous acid in physiologic situations, and other toxic intermediates that greatly enhance PMN microbicidal activity.

Involvement in disease

Defects in MPO are the cause of myeloperoxidase deficiency (MPD) [MIM:254600]. MPD is an autosomal recessive defect that results in disseminated candidiasis.

Sequence similarities

Belongs to the peroxidase family. XPO subfamily.

Cellular localization

Lysosome.

Images

Representative Standard Curve using ab119605.

Typical Standard Curve

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"
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