

## Product datasheet for EA200027

### Human Myeloperoxidase (MPO) ELISA Kit 1 x 96

#### Product data:

Product Type:	ELISA Kits
Description:	Human Myeloperoxidase (MPO) ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	3.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	0.312ng/ml-20ng/ml
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human MPO
Sensitivity:	110pg/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none"><li>● MPO Antibody Coated 96-well Plate in foil pouch with desiccant   1 plate</li><li>● Recombinant Human MPO Standard (1µg/ml)   0.1 mL</li><li>● 100x Biotin conjugated MPO Detection Antibody   0.12 mL</li><li>● 100x SA-HRP Conjugate   0.12 mL</li><li>● Assay Buffer   30 mL</li><li>● Standard Diluent   10 mL</li><li>● Sample Diluent   25 mL</li><li>● Wash Buffer Concentrate 20X   60 mL</li><li>● TMB Substrate   12 mL</li><li>● Stop Solution   12 mL</li><li>● Plate Sealer   3 pieces</li></ul>



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**Background:**

Myeloperoxidase (MPO) is a peroxidase enzyme that in humans is encoded by the MPO gene. MPO protein is a 150-kDa cationic heterotetramer consisting of two 15-kDa light chains and two variable-weight glycosylated heavy chains bound to a prosthetic heme group, arranged as a homodimer of heterodimers. MPO is most abundantly expressed in neutrophil granulocytes, and produces hypohalous acids to carry out their antimicrobial activity, including hypochlorous acid. It is a lysosomal protein stored in azurophilic granules of the neutrophil and released into the extracellular space during degranulation. Myeloperoxidase deficiency is a hereditary deficiency of the enzyme, which predisposes to immune deficiency. Recent studies have reported an association between elevated myeloperoxidase levels and the severity of coronary artery disease, and elevated MPO levels increased the risk for cardiovascular mortality. It has also been suggested that myeloperoxidase plays a significant role in the development of the atherosclerotic lesion and rendering plaques unstable. MPO could serve as a sensitive predictor for myocardial infarction.

**Gene Symbol:**

MPO

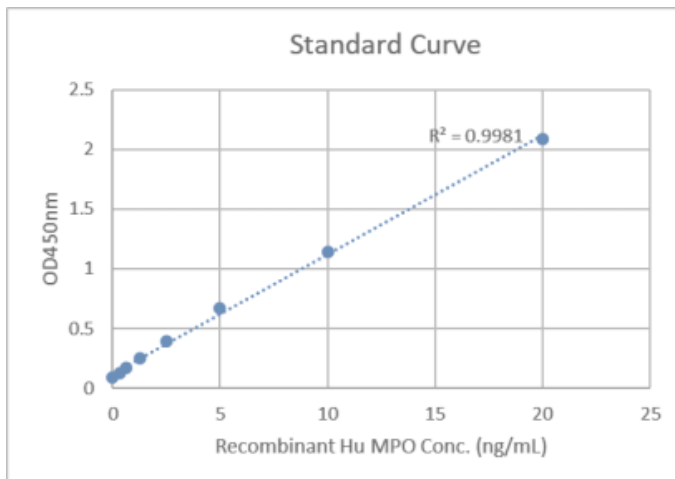
**Gene ID:**

4353

**Standard Curve:**

□

Data image of Human Myeloperoxidase (MPO) ELISA Kit.

**Product images:**

Data image of Human Myeloperoxidase (MPO) ELISA Kit.