



Myeloperoxidase (pANCA) Antigen (DAG-T1237)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Purified from human neutrophils from blood tested and found to be negative for HBs-antigen, anti-HIV1, anti-HIV2, anti-HCV, Lues and GPT. After coating onto ELISA plates the product will bind autoantibodies to myeloperoxidase (pANCA) antigen.
Antigen Description	Myeloperoxidase (MPO) is a peroxidase enzyme that in humans is encoded by the MPO gene. Myeloperoxidase is most abundantly expressed in neutrophil granulocytes (a subtype of white blood cells). It is a lysosomal protein stored in azurophilic granules of the neutrophil. MPO has a heme pigment, which causes its green color in secretions rich in neutrophils, such as pus and some forms of mucus.
Purity	The myeloperoxidase autoantigen is more than 95% pure, as assessed by SDS gel electrophoresis.
Concentration	0.5-2.0 mg/ml
Size	0.2 mg
Preservative	None
Storage	The product is stabilised with 0.1% Micr-O-protect™. Store at -20°C or below (long term) or at +4°C (short term). Avoid repeated freezing and thawing. Mix thoroughly before use.

GENE INFORMATION

Gene Name	MPO myeloperoxidase [Homo sapiens]
Official Symbol	MPO
Synonyms	MPO; myeloperoxidase;

Entrez Gene ID	4353
mRNA Refseq	NM_000250
Protein Refseq	NP_000241
UniProt ID	P05164
Chromosome Location	17q21.3-q23
Pathway	C-MYB transcription factor network; Folate Metabolism; IL23-mediated signaling events; Phagosome; Phagosome; Selenium Pathway; Transcriptional misregulation in cancer
Function	chromatin binding; heme binding; heparin binding; metal ion binding; oxidoreductase activity; peroxidase activity;
References	MPO;myeloperoxidase;NP_000241;NM_000250;P05164;EC 1.11.2.2;EC 1.11.1;EC 1.11.1.7;HGNC: 7218;Entrez Gene: 4353;Ensembl: ENSG00000005381;OMIM: 606989;UniProtKB: P05164;PERM_HUMAN;