SunLong Biotech Co.,LTD
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Rabbit Anti-MPO antibody

SL41105R

Product Name	MPO
Chinese Name	髓过氧化物酶抗体
Alias	Myeloperoxidase; c-ANCA; 89 kDa myeloperoxidase; 84 kDa yeloperoxidase; Myeloperoxidase light chain; Myeloperoxidase heavy chain; EC 1.11.1.7; PERM_HUMAN.
Research Area	Tumour Cell biology immunology Kinases and Phosphatases lymphocyte
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,
Applications	WB=1:500-2000,Flow-Cyt=1ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	84kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human Myeloperoxidase: 165-745/745
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation

Detail

that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. [provided by RefSeq, Nov 2014]

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.

Subunit:
Tetramer of two light chains and two heavy chains.

Subcellular Location:
Lysosome.

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

Similarity:
Belongs to the peroxidase family. XPO subfamily.

SWISS:
P05164

Gene ID:
4353

Database links:

Entrez Gene: 4353 Human

Entrez Gene: 17523 Mouse

Entrez Gene: 303413 Rat

Omim: 606989 Human

SwissProt: P05164 Human

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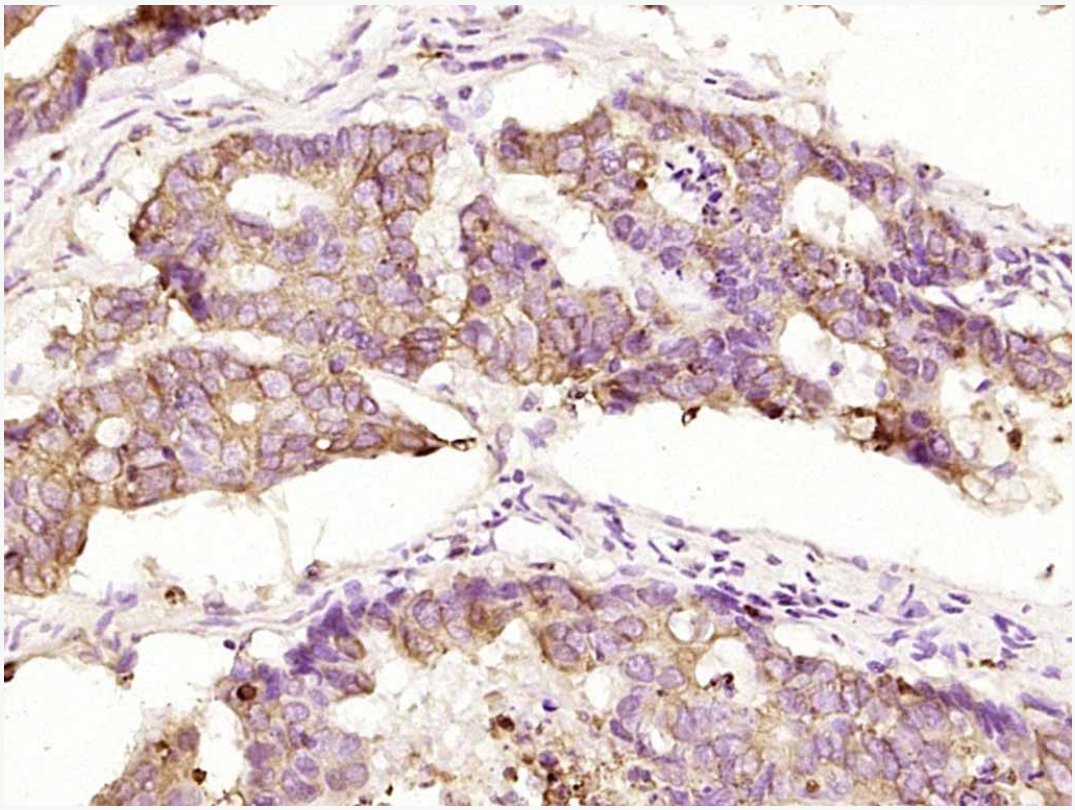
SwissProt: P11247 Mouse

Unigene: 458272 Human

Unigene: 4668 Mouse

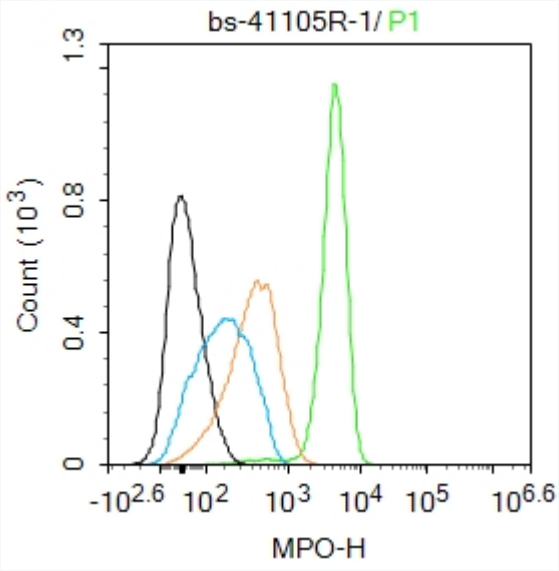
Unigene: 47782 Rat

Product Picture



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Myeloperoxidase) Polyclonal Antibody, Unconjugated (SL41105R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB

staining.



Blank control（black line）:HL60.

Primary Antibody (green line):Rabbit Anti-MPO antibody (SL41105R)

Dilution:1ug/Test;

Secondary Antibody : Goat anti-rabbit IgG-AF488

Dilution:0.5ug/Test.

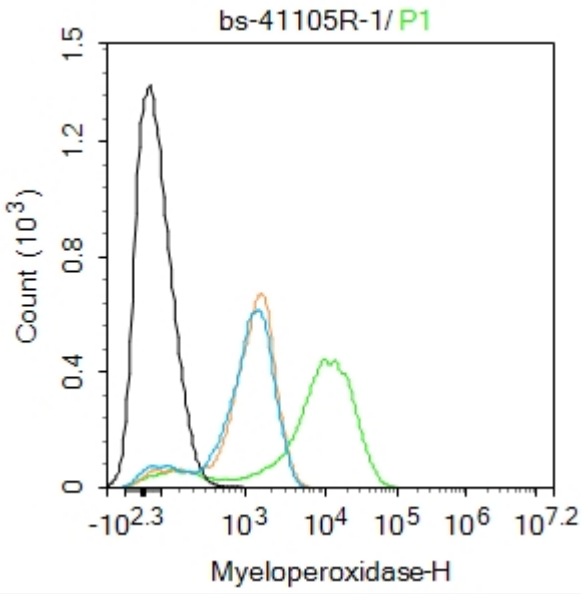
Negative control（white blue line）:PBS

Isotype control（orange line）:Normal Rabbit IgG

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min

at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control:HL60.

Primary Antibody (green line): Rabbit Anti-Myeloperoxidase antibody (SL41105R)

Dilution: 1ug/Test;

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 0.5ug/Test.

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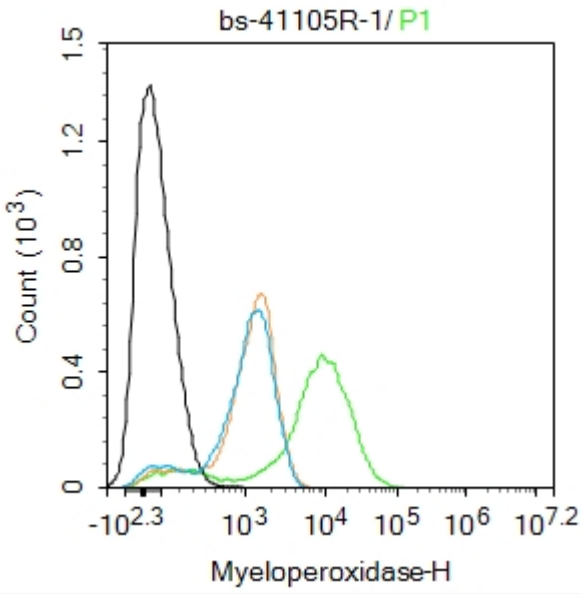

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