



Rabbit Anti-Human MPO monoclonal antibody, clone KN21-69 (DCABH-2947)

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

PRODUCT INFORMATION

Target	Myeloperoxidase
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	KN21-69
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC
Cellular Localization	Lysosome.
Positive Control	HL-60, AGS, Hela, MCF-7, human lung tissue, human spleen tissue, human tonsil tissue, mouse brain tissue, mouse spinal cord tissue, mouse colon tissue, mouse skin tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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BACKGROUND

Introduction	The heme protein myeloperoxidase (MPO) is a major component of azurophilic granules of neutrophils and polymorphonuclear leukocytes. Optimal oxygen-dependent microbiocidal activity depends on MPO as the critical enzyme for the generation of hypochlorous acid and other toxic oxygen products. The MPO precursor is synthesized during the promyelocytic stage of myeloid differentiation and is subsequently processed and transported intracellularly to the lysosomes. The precursor undergoes cotranslational N-linked glycosylation to produce a glycoprotein. Glucosidases in the endoplasmic reticulum (ER) or early cis Golgi convert the pro-MPO to a form which is sorted into a prelysosomal compartment, which undergoes final proteolytic maturation to native MPO, a pair of heavy-light protomers. In normal neutrophils, MPO is expressed as a dimer. Calreticulin, a calcium-binding protein residing in the ER, interacts specifically with fully glycosylated apopro-MPO. iMPO mRNA is abundant in human promyelocytic HL-60 and mouse myeloid leukemia NFS-60 cells. MPO is expressed at high levels in circulating neutrophils and monocytes but is not detectable in microglia, brain-specific macrophages or normal brain tissue.
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Keywords	84 kDa myeloperoxidase;89 kDa myeloperoxidase;EC 1.11.1.7;EC1.11.2.2;fj80f04;MPO;mpx;myeloid-specific peroxidase;Myeloperoxidase;Myeloperoxidase heavy chain;Myeloperoxidase light chain;PERM_HUMAN;wu:fj80f04 antibody
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GENE INFORMATION

Entrez Gene ID	4353
UniProt ID	P05164