

Mouse MPO Monoclonal Antibody | anti-MPO antibody

MPO, Rat, mAb 2D4, Biotin

CATALOG # AAA14608	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

MPO; Monoclonal Antibody; Rat; mAb 2D4; Biotin; anti-MPO antibody

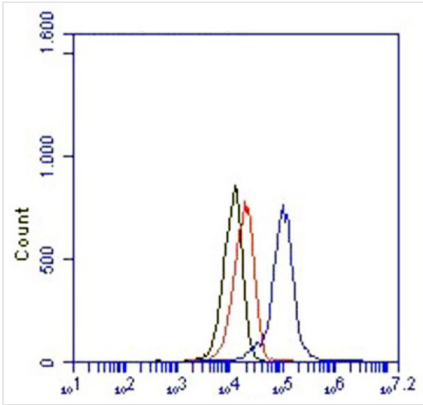
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	2D4
Purity/Purification	Protein G
Form/Format	(100 ug/ml) 0.2 um filtered in PBS + 0.1% BSA + 0.02% NaN ₃
Sequence Length	745
Applicable Applications for anti-MPO antibody	FCM/FACS (Flow Cytometry), IA (Immunoassay)
Application Notes	Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. Immuno Assays: The antibody can be used as a detection antibody. Flow Cytometry: Cells are fixed with 4% paraformaldehyde and permeabilized with 0.1% saponin.
Conjugate	Biotin
Cross reactivity	Mouse: Yes
Immunogen	Mouse myeloperoxidase
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for one year.

	IBC-F	IBC-P	IF	FC	FS	IA	IP	W
Reference #				1				
Yes				*		*		
No								
N.D.	*	*	*		*		*	*

N.D. = Not Determined; IBC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Application Data



FCM (Flow Cytometry)
Detection of MPO in Wehi3BD+ cells. Red, black and blue line represent the isotype control, cells only and with a concentration of 20 ug/ml, respectively.

ADDITIONAL INFORMATION

Related Product Information for anti-MPO antibody

Product Description: The monoclonal antibody 2D4 reacts with rat myeloperoxidase (MPO). MPO is a glycoprotein with an alpha2beta2 heteromultimer expressed in all cells of the myeloid lineage. MPO is abundantly present in azurophilic granules of polymorphonuclear neutrophils. It is an important enzyme used during phagocytic lysis of engulfed foreign particles which takes part in the defense of the organism through production of hypochlorous acid (HOCl), a potent oxidant. MPO is rapidly released by activated polymorphonuclear neutrophils. Involvement of MPO has been described in numerous diseases such as atherosclerosis, lung cancer, Alzheimer’s disease and multiple sclerosis. Autoimmune antibodies to MPO are involved in Wegeners disease. Since the discovery of MPO deficiency, initially regarded as rare and restricted to patients suffering from severe infections, MPO has more attracted clinical attention. In experimental studies antibodies to MPO can be used for various purposes ranging from flow cytometric analysis to detection of polymorphonuclear neutrophils in tissue sections.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557759
NCBI GeneID	4353
NCBI Accession #	NP_000241.1
NCBI GenBank Nucleotide #	NM_000250.1
NCBI Official Full Name	myeloperoxidase
NCBI Official Synonym Full Names	myeloperoxidase
NCBI Official Symbol	MPO
NCBI Protein Information	myeloperoxidase
UniProt Protein Name	Myeloperoxidase
UniProt Gene Name	MPO
UniProt Synonym Gene Names	MPO
UniProt Entry Name	PERM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.