

Mouse anti-Human. Eosinophil Peroxidase Monoclonal Antibody | anti-EPX antibody

Eosinophil Peroxidase

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13812	Mouse	Human.	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

Eosinophil Peroxidase; Monoclonal Antibody; Eosinophil peroxidase heavy chain; EPER; EPO; EPP; EPX; EPX PEN; PERE; anti-EPX antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	AHE-1
Specificity	Peripheral blood granulocytes are classified into neutrophils, basophils and eosinophils according to the staining characteristics of their cytoplasmic granules. Granule proteins are released by physiologic and pharmacologic stimuli and play important roles in both normal and pathological host immune responses. Eosinophil major basic protein and eosinophil peroxidase (EPX) are granule proteins specific to the eosinophil. AHE-1 recognizes human EPX, a granule protein specific to eosinophils. It does not cross-react with eosinophil major basic protein, elastase, cathepsin G, esterase N, thrombin, plasmin, kallikrein, lactoferrin, or transferrin. This MAb stains eosinophils only and does not stain other peripheral blood cells, including platelets, neutrophils, monocytes, lymphocytes or red blood cells. Human EPX gene product can form a tetramer of two light chains and two heavy chains. Other peroxidase family members include myeloperoxidase (MPO), lactoperoxidase (LPO), and thyroid peroxidase (TPO).
Form/Format	1.0mg/ml of Ab purified from Bioreactor Concentrate by Protein A/G.
Sequence Length	715
Applicable Applications for anti-EPX antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry (0.5-1ug/million cells) Immunofluorescence (0.5-1ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined
Cellular Localization	Cytoplasmic
Positive Control	MCF-7 cells. Tonsil
Human Chromosomal Location	17q22
Immunogen	Human eosinophils from a patient with hypereosinophilic syndrome
Preparation and Storage	Antibody without azide - store at -20°C to -80°C. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human pancreas stained with Eosinophil Peroxidase (EPX)
Mouse Monoclonal Antibody (AHE-1).

ADDITIONAL INFORMATION

References	1. Abbas, A., A.H. Lichtman and J.S. Pober. 1994. Cellular and Molecular Biology, W.B. Saunders Co., Philadelphia, London, Toronto, Tokyo), pp 14-30. 2. Skubitz, K.M., N.P. Christiansen and J.R. Mendiola. 1989. Preparation and characterization of monoclonal antibodies to human neutrophil cathepsin G, lactoferrin, eosinophil peroxidase, and eosinophil major basic protein. J. Leukocyte Biol. 46:109-118. 3. Skubitz, K.M., N.G. Wehner and B.H. Gray. 1988. Preparation and characterization of monoclonal antibody that inhibits human neutrophil elastase activity. J. leukocyte Bio. 44:158-165.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503595
NCBI GeneID	8288
NCBI Accession #	NP_000493.1
NCBI GenBank Nucleotide #	NM_000502.4
UniProt Accession #	P11678; Q4TVP3
Molecular Weight	70kDa (55kDa-Heavy Chain; 15kDa-Light Chain)
NCBI Official Full Name	eosinophil peroxidase preproprotein
NCBI Official Synonym Full Names	eosinophil peroxidase
NCBI Official Symbol	EPX
NCBI Official Synonym Symbols	EPO; EPP; EPX-PEN
NCBI Protein Information	eosinophil peroxidase
UniProt Protein Name	Eosinophil peroxidase
UniProt Gene Name	EPX
UniProt Synonym Gene Names	EPER; EPO; EPP; EPO
UniProt Entry Name	PERE_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/eosinophil-peroxidase-antibody-clone-ahe-1-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/13812>