

EPX Rabbit pAb

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Catalog # AP94182

Product Information

Application	IHC-P, IHC-F, IF
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Eosinophil peroxidase heavy chain
Epitope Specificity	601-715/715
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasmic granule. Note=Cytoplasmic granules of eosinophils.
SIMILARITY	Belongs to the peroxidase family. XPO subfamily.
SUBUNIT	Tetramer of two light chains and two heavy chains.
DISEASE	Defects in EPX are the cause of eosinophil peroxidase deficiency (EPD) [MIM:261500]. EPD is an autosomal recessive defect where anomalous eosinophils are characterized by nuclear hypersegmentation, hypogranulation, and negative peroxidase and phospholipid staining.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	EPX, eosinophil peroxidase, is an antimycobacterial protein that localizes to cytoplasmic granules of eosinophils and recruits bromide to generate a halogenating oxidant. EPX dependent generation of hypobromous acid causes damage to tissue during inflammatory conditions that include asthma, allergies, cancer and parasitic/helminthic infections. EPX is a major enzyme present in eosinophils and upon degranulation, becomes released into the airways of asthmatics. As a result of its cationic nature and its ability to catalyze the formation of highly toxic oxidants, EPX can induce lung injury in a JNK dependent manner.

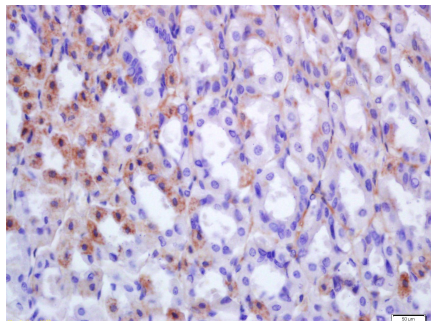
Additional Information

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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Images



Tissue/cell: mouse stomach tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-EPX Polyclonal Antibody, Unconjugated(AP94182) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.