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CPA3 Rabbit pAb

Catalog # AP97534

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P15088
Other Accession	P15088
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48670
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Human CPA3/MC-CPA
Epitope Specificity	101-200/417
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase M14 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Carboxypeptidase A (CPA) is a pancreatic exopeptidase which hydrolyses the peptide bond adjacent to the C-terminal end in polypeptide chains. Mast cell carboxypeptidase A (MC-CPA), a part of the peptidase M14 family, is a highly conserved metalloprotease localized to the secretory granules, along with trytases and chymases. MC-CPA is stored as an active enzyme in the granule and is released, along with other inflammatory mediators, upon mast cell degranulation. MC-CPA mirrors pancreatic carboxypeptidase A in cleaving COOH-terminal aromatic and aliphatic amino acid residues. The optimum pH of MC-CPA is between neutral and basic, depending upon the substrate. The MC-CPA gene, CPA3, resides on chromosome 3 and contains 11 exons.

Additional Information

Gene ID	1359
Other Names	CBPA3_HUMAN; CPA3; MC-CPA; Carboxypeptidase A3; 3.4.17.1; carboxypeptidase A3 (mast cell); mast cell carboxypeptidase A; tissue carboxypeptidase A
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

Protein Information

Name	CPA3
Cellular Location	Cytoplasmic vesicle, secretory vesicle. Note=Secretory granules

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