

Mouse Carboxypeptidase A3, Mast Cell (CPA3) ELISA Kit | CPA3 elisa kit

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CATALOG #
AAA140094

REACTIVITY
Mouse

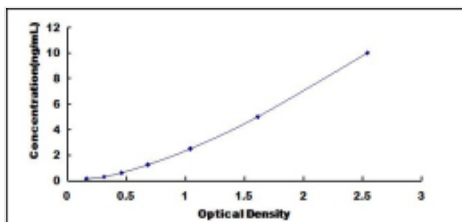
PRODUCT SYNONYMS

Carboxypeptidase A3; Mast Cell (CPA3); Mouse Carboxypeptidase A3; Mast Cell (CPA3) ELISA Kit; MC-CPA; Mast cell carboxypeptidase A; CPA3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Carboxypeptidase A3, Mast Cell (CPA3). No significant cross-reactivity or interference between Carboxypeptidase A3, Mast Cell (CPA3) and analogues was observed.
Sequence Length	417
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	5.9pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Carboxypeptidase A3, Mast Cell (CPA3) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Carboxypeptidase A3, Mast Cell (CPA3) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CPA3 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Carboxypeptidase A3, Mast Cell (CPA3). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Carboxypeptidase A3, Mast Cell (CPA3). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Carboxypeptidase A3, Mast Cell (CPA3), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Carboxypeptidase A3, Mast Cell (CPA3) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CPA3 elisa kit	Enzyme & Kinase; Infection immunity; Rheumatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	119599308
NCBI GeneID	1359
UniProt Accession #	P15088; Q96E94
Molecular Weight	48,670 Da
NCBI Official Full Name	carboxypeptidase A3 (mast cell)
NCBI Official Synonym Full Names	carboxypeptidase A3 (mast cell)
NCBI Official Symbol	CPA3
NCBI Official Synonym Symbols	MC-CPA
NCBI Protein Information	mast cell carboxypeptidase A
UniProt Protein Name	Mast cell carboxypeptidase A
UniProt Gene Name	CPA3
UniProt Synonym Gene Names	MC-CPA
UniProt Entry Name	CBPA3_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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/carboxypeptidase-a3-mast-cell-cpa3/140094>