

Rabbit anti-Mouse Carboxypeptidase B1 Polyclonal Antibody

Anti-Carboxypeptidase B1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259129	Rabbit	Mouse	Immunohistochemistry, Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

Carboxypeptidase B1; Polyclonal Antibody; Anti-Carboxypeptidase B1 Antibody; Rabbit Polyclonal; carboxypeptidase B1 (tissue); Anti-0910001A18Rik Antibody; Anti-1810063F02Rik Antibody; Anti-2210008M23Rik Antibody; Anti-AI504870 Antibody; anti-Carboxypeptidase B1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Carboxypeptidase B1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-Carboxypeptidase B1 antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse Carboxypeptidase B1 Protein
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Carboxypeptidase B1 (rM Carboxypeptidase B1). Carboxypeptidase B1 specific IgG was purified by Mouse Carboxypeptidase B1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

mCPB1 was immunoprecipitated using: Lane A: 0.5 mg Mouse Spleen Whole Cell Lysate 4 uL anti-mCPB1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-mCPB1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 40 kDa. Observed band size: 40 kDa.



IHC (Immunohistochemistry)

Immunohistochemical staining of human Carboxypeptidase B1 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-CPB1 rabbit polyclonal antibody at 1:1000 dilution Lane A: Mouse spleen tissue lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 47 kDa Observed band size: 47 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-Carboxypeptidase B1 antibody	Carboxypeptidase B1, also well known as pancreatic procarboxypeptidase B (PCPB), is a highly pancreas -specific protein (PASP), and has been identified previously as a serum marker for acute pancreatitis and pancreatic graft rejection. As the prototype for those human exopeptidases that cleave off basic C-terminal residues, CPB1 specifically cleaves the C-terminal Arg and Lys residues with a preference for Arg. The B1 and B2 forms of procarboxypeptidase B differ from each other mainly in isoelectric point. The deduced amino acid sequence of PCPB predicts a 416-amino acid preproenzyme consisting of a 15-aa signal peptide, a 95-aa activation peptide and a 37-aa mature chain. The secreted PCPB zymogen is converted to enzymatically active CPB1 by limited proteolysis by trypsin.
References	Yamamoto, K.K. et al., 1992, J. Biol. Chem. 267: 2575-2581. Pezzilli, R. et al., 1994, Digestion. 55: 73-77. Barbosa Pereira, P.J. et al., 2002, J. Mol. Biol. 321: 537-547.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

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