

Rabbit anti-Human Carboxypeptidase A Polyclonal Antibody | anti-CPA1 antibody

Anti-Carboxypeptidase A Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254971	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Carboxypeptidase A; Polyclonal Antibody; Anti-Carboxypeptidase A Antibody; Rabbit Polyclonal; Carboxypeptidase A1/CPA1 Antibody; Rabbit PAb; Antigen Affinity Purified; carboxypeptidase A1 (pancreatic); Anti-CPA Antibody; anti-CPA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Carboxypeptidase A1/CPA1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CPA1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Carboxypeptidase A1/CPA1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Carboxypeptidase A1/CPA1 (rh Carboxypeptidase A1/CPA1). Carboxypeptidase A1/CPA1 specific IgG was purified by Human Carboxypeptidase A1/CPA1 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



WB (Western Blot)

Anti-CPA1 rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lysates/proteins at 60 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 55 kDa Observed band size: 47 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

CPA1 was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate 2 uL anti-CPA1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-CPA1 rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution Developed using the DAB staining technique. Performed under reducing conditions. Predicted band size: 50 kDa Observed band size: 50 kDa



IHC (Immunohistochemistry)

Immunochemical staining of human CPA1 in human pancreas with rabbit polyclonal antibody (1:5000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-CPA1 antibody	Carboxypeptidase A1 (CPA1) is secreted as a pancreatic procarboxypeptidase, and cleaves the C-terminal amide or ester bond of peptides that have a free C-terminal carboxyl group, with the preference of residues with aromatic or branched aliphatic side chains. CPA1 comprises a signal peptide, a pro region and a mature chain, and can be activated after cleavage of the pro peptide. In contrast to procarboxypeptidase B which was always secreted by the pancreas as a monomer, procarboxypeptidase A occurs as a monomer and/or associated to one or two functionally different proteins, such as zymogen E, and is involved in zymogen inhibition. Three different forms of human pancreatic procarboxypeptidase A have been isolated.
References	Catasus, L. et al., 1992, Biochem. J. 287: 299-303. Moulard, M. et al., 1990, FEBS. Lett. 261: 179-183. Aloy, P. et al., 1998, Biol. Chem. 379: 149-155.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502997
NCBI GeneID	1357
NCBI Accession #	NP_001859.1
NCBI GenBank Nucleotide #	NM_001868.2
UniProt Accession #	P15085; Q53XU0; Q9BS67; Q9UCF2; A4D1M1
Molecular Weight	47,140 Da
NCBI Official Full Name	carboxypeptidase A1
NCBI Official Synonym Full Names	carboxypeptidase A1 (pancreatic)
NCBI Official Symbol	CPA1
NCBI Official Synonym Symbols	CPA
NCBI Protein Information	carboxypeptidase A1; pancreatic carboxypeptidase A
UniProt Protein Name	Carboxypeptidase A1
UniProt Gene Name	CPA1
UniProt Synonym Gene Names	CPA
UniProt Entry Name	CBPA1_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/polyclonal/carboxypeptidase-a-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/254971>