

Anti-Carboxypeptidase A Picoband Antibody

Catalog # ABO13048

Product Information

Application	WB
Primary Accession	P15085
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Carboxypeptidase A detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1357
Other Names	Carboxypeptidase A1, 3.4.17.1, CPA1, CPA
Calculated MW	47140
Application Details	Western blot, 0.1-0.5 µg/ml
Subcellular Localization	Secreted.
Source	Eukaryota
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence of human Carboxypeptidase A (KRPAIWIDTGIHSREWVTQASGVWFakkITQDYGQDAAFTAILDTLD).
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C; for one year. After reconstitution, at 4 °C; for one month. It can also be aliquotted and stored frozen at -20 °C; for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	CPA1 (HGNC:2296)
Synonyms	CPA

Function	Carboxypeptidase that catalyzes the release of a C-terminal amino acid, but has little or no action with -Asp, -Glu, -Arg, -Lys or -Pro (PubMed: 20385563 , PubMed: 8806703). Catalyzes the conversion of leukotriene C4 to leukotriene F4 via the hydrolysis of an amide bond (By similarity).
Cellular Location	Secreted {ECO:0000250 UniProtKB:Q9UI42}.

Background

Carboxypeptidase A1 is an enzyme that in humans is encoded by the CPA1 gene. This gene encodes a member of the carboxypeptidase A family of zinc metalloproteases. This enzyme is produced in the pancreas and preferentially cleaves C-terminal branched-chain and aromatic amino acids from dietary proteins. This gene and several family members are present in a gene cluster on chromosome 7. Mutations in this gene may be linked to chronic pancreatitis, while elevated protein levels may be associated with pancreatic cancer.

Images

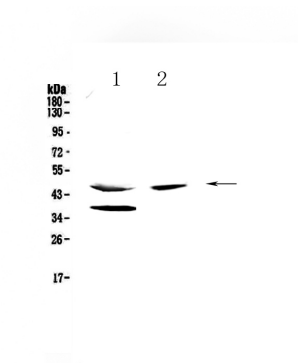


Figure 1. Western blot analysis of Carboxypeptidase A using anti-Carboxypeptidase A antibody (ABO13048).

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