

Anti-Carboxypeptidase B1 Antibody (8Y498)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8Y498
Purification:	Protein A

Applications

Verified Activity:	Immunochemical staining of human CPB1 in human pancreas with mouse monoclonal antibody (1:2000, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:1000-1:4000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human Carboxypeptidase B1 / CPB1 protein (TMPY-00727)
Antigen Species:	Human
Synonyms:	0910001A18Rik;1810063F02Rik;carboxypeptidase B1 (tissue);2210008M23Rik;AI504870

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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