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CPB1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CPB1.
Catalog # AT1605a

Product Information

Application	WB, IHC, IP
Primary Accession	P15086
Other Accession	BC015338
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4D5
Calculated MW	47368

Additional Information

Gene ID	1360
Other Names	Carboxypeptidase B, Pancreas-specific protein, PASP, CPB1, CPB, PCPB
Target/Specificity	CPB1 (AAH15338, 14 a.a. ~ 417 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IP~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CPB1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

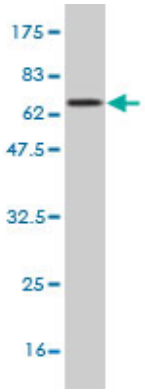
Three different procarboxypeptidases A and two different procarboxypeptidases B have been isolated. The B1 and B2 forms differ from each other mainly in isoelectric point. Carboxypeptidase B1 is a highly tissue-specific protein and is a useful serum marker for acute pancreatitis and dysfunction of pancreatic transplants. It is not elevated in pancreatic carcinoma.

References

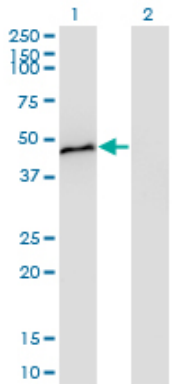
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.The NMR structure and dynamics of the two-domain tick carboxypeptidase inhibitor reveal flexibility in its free form and stiffness upon binding to

human carboxypeptidase B. Pantoja-Uceda D, et al. Biochemistry, 2008 Jul 8. PMID 18558717.TAFI and pancreatic carboxypeptidase B modulate in vitro capillary tube formation by human microvascular endothelial cells. Guimar?es AH, et al. Arterioscler Thromb Vasc Biol, 2007 Oct. PMID 17673703.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

Images

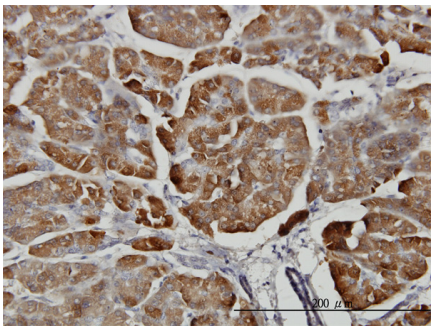


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (70.18 KDa) .

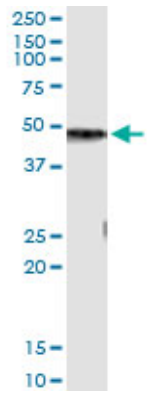


Western Blot analysis of CPB1 expression in transfected 293T cell line by CPB1 monoclonal antibody (M01), clone 4D5.

Lane 1: CPB1 transfected lysate(47.4 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to CPB1 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]



Immunoprecipitation of CPB1 transfected lysate using anti-CPB1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with CPB1 MaxPab rabbit polyclonal antibody.

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