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CPA2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant CPA2.
Catalog # AT1604a

Product Information

Application	WB, IP, E
Primary Accession	P48052
Other Accession	NM_001869
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2E12
Calculated MW	47030

Additional Information

Gene ID	1358
Other Names	Carboxypeptidase A2, CPA2
Target/Specificity	CPA2 (NP_001860, 117 a.a. ~ 206 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IP~~N/A E~~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	CPA2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

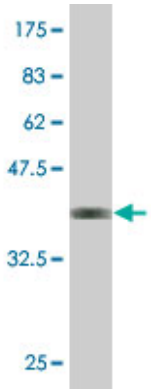
Three different forms of human pancreatic procarboxypeptidase A have been isolated. The encoded protein represents the A2 form, which is a monomeric protein with different biochemical properties from the A1 and A3 forms. The A2 form of pancreatic procarboxypeptidase acts on aromatic C-terminal residues and is a secreted protein.

References

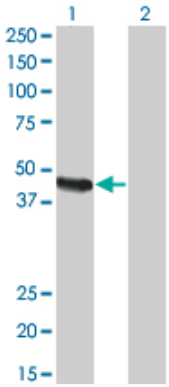
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Influence of aggregation propensity and stability on amyloid fibril formation as studied by Fourier transform infrared spectroscopy and

two-dimensional COS analysis. Cerd?-Costa N, et al. Biochemistry, 2009 Nov 10. PMID 19817500.High-density SNP association study and copy number variation analysis of the AUTS1 and AUTS5 loci implicate the IMMP2L-DOCK4 gene region in autism susceptibility. Maestrini E, et al. Mol Psychiatry, 2010 Sep. PMID 19401682.High-resolution structural and thermodynamic analysis of extreme stabilization of human procarboxypeptidase by computational protein design. Dantas G, et al. J Mol Biol, 2007 Mar 2. PMID 17196978.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.

Images

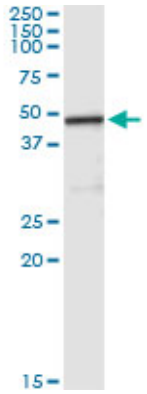


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.9 KDa) .

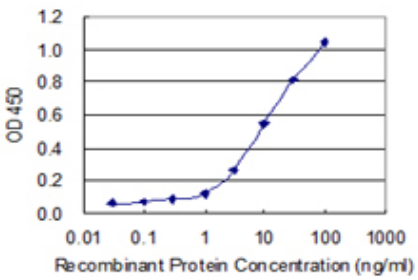


Western Blot analysis of CPA2 expression in transfected 293T cell line by CPA2 monoclonal antibody (M02), clone 2E11.

Lane 1: CPA2 transfected lysate(46.8 KDa).
Lane 2: Non-transfected lysate.



Immunoprecipitation of CPA2 transfected lysate using anti-CPA2 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with CPA2 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged CPA2 is 0.3 ng/ml as a capture antibody.