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Anti-Carboxypeptidase A1 Antibody

Catalog # AP51112

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P15085
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47140

Additional Information

Gene ID	1357
Other Names	CPA; Carboxypeptidase A1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Carboxypeptidase A1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

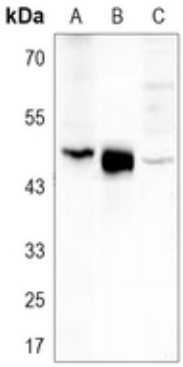
Name	CPA1 (HGNC:2296)
Synonyms	CPA
Function	Carboxypeptidase that catalyzes the release of a C-terminal amino acid, but has little or no action with -Asp, -Glu, -Arg, -Lys or -Pro (PubMed:20385563, PubMed:8806703). Catalyzes the conversion of leukotriene C4 to leukotriene F4 via the hydrolysis of an amide bond (By similarity).
Cellular Location	Secreted {ECO:0000250|UniProtKB:Q9UI42}.

References

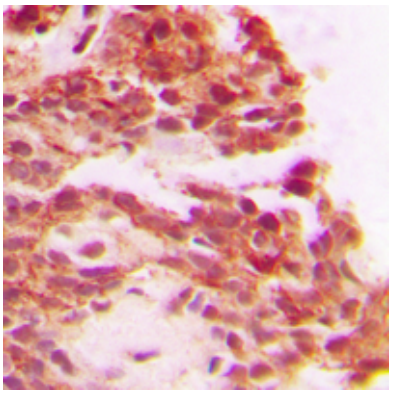
Catasus L.,et al.Biochem. J. 287:299-303(1992).
Laethem R.M.,et al.Arch. Biochem. Biophys. 332:8-18(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Scherer S.W.,et al.Science 300:767-772(2003).

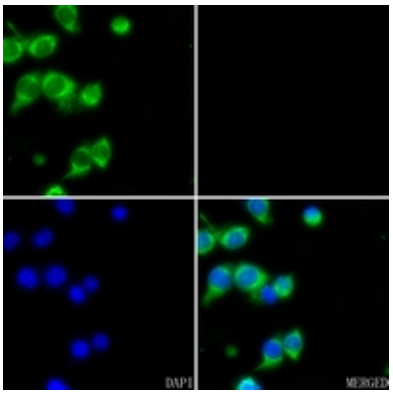
Images



Western blot analysis of Carboxypeptidase A1 expression in C6 (A), mouse pancreas (B), U87MG (C) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 47 kD)



Immunohistochemical analysis of Carboxypeptidase A1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Carboxypeptidase A1 staining in BV2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).