

Rabbit Anti-Human Carboxypeptidase M Monoclonal Antibody

Cat. No. CAB11517RH Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Carboxypeptidase M
Species	Human
Source	Rabbit
Antigen Description	Carboxypeptidase M, also known as CPM, is a membrane-bound arginine /lysine carboxypeptidase which is a member of the carboxypeptidases family. These enzymes remove C-terminal amino acids from peptides and proteins and exert roles in the physiological processes of blood coagulation/fibrinolysis, inflammation, food digestion and pro-hormone and neuropeptide processing. Among the carboxypeptidases CPM is of particular importance because of its constitutive expression in an active form at the surface of specialized cells and tissues in the human body. CPM in the brain appears to be membrane-bound via a phosphatidylinositol glycan anchor. CPM is widely distributed in a variety of tissues and cells. The amino acid sequence of CPM indicated that the C-terminal hydrophobic region might be a signal for membrane attachment via a glycosylphosphatidylinositol (GPI) anchor. CPM is involved in peptide metabolism on both the cell surface and in extracellular fluids. CPM functions not only as a protease but also as a binding partner in cell-surface protein-protein interactions.
Specificity	Human Carboxypeptidase M / CPM. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

Immunogen	Recombinant Human Carboxypeptidase M / CPM Protein
Isotype	Rabbit IgG
Clone	A106
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human CPM in WB. Using a DAB detection system, the detection limit for Human CPM is approximately 0.5 ng/lane under non-reducing conditions and 0.25 ng/lane under reducing conditions. ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human CPM. The detection limit for Human CPM is approximately 0.0049 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human Carboxypeptidase M / CPM
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CPM carboxypeptidase M [Homo sapiens]
Official Symbol	CPM

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Synonyms	CPM; carboxypeptidase M; renal carboxypeptidase; urinary carboxypeptidase B;
Gene ID	1368
mRNA Refseq	NM_001874
Protein Refseq	NP_001865
MIM	114860
UniProt ID	P14384
Chromosome Location	12q15
Function	carboxypeptidase activity; metal ion binding; metallocarboxypeptidase activity; metalloproteinase activity; peptidase activity; zinc ion binding;

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