

Rabbit anti-Human Carboxypeptidase M Monoclonal Antibody | anti-CPM antibody

Recombinant Anti-Carboxypeptidase M Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255365	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

Carboxypeptidase M; Monoclonal Antibody; Recombinant Anti-Carboxypeptidase M Antibody; Rabbit Monoclonal; Carboxypeptidase M Antibody; Rabbit MAb; carboxypeptidase M; anti-CPM antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	105
Specificity	Human Carboxypeptidase M/CPM
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CPM antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Carboxypeptidase M/CPM Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Carboxypeptidase M/CPM (rh Carboxypeptidase M/CPM).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

CPM was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 2 uL anti-CPM rabbit monoclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-CPM rabbit monoclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the DAB staining technique. Performed under reducing conditions. Predicted band size: 55 kDa. Observed band size: 55 kDa.



WB (Western Blot)

Anti-CPM rabbit monoclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 51 kDa. Observed band size: 55 kDa. (We are unsure as to the identity of these extra bands.)

ADDITIONAL INFORMATION

Related Product Information for anti-CPM antibody	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.
References	Deddish PA. et al., 1990, J Biol Chem. 265 (25): 15083-9. Nagae A. et al., 1992, J Neurochem. 59 (6): 2201-12. Skidgel RA. et al., 1996, Immunopharmacology. 32 (1-3): 48-52. Deiteren K. et al., 2009, Clin Chim Acta. 399 (1-2): 24-39.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38327526
NCBI GeneID	1368
NCBI Accession #	NP_938079.1
NCBI GenBank Nucleotide #	NM_198320.3
UniProt Accession #	P14384; Q9H2K9; B2R800
Molecular Weight	50,514 Da
NCBI Official Full Name	carboxypeptidase M
NCBI Official Synonym Full Names	carboxypeptidase M
NCBI Official Symbol	CPM
NCBI Protein Information	carboxypeptidase M
UniProt Protein Name	Carboxypeptidase M
UniProt Gene Name	CPM
UniProt Synonym Gene Names	CPM
UniProt Entry Name	CBPM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.