

## Anti-Carboxypeptidase M Antibody (6K425)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6K425
Purification:	Protein A

### Applications

Verified Activity:	<p>1. Anti-CPM rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: HepG2 Whole Cell lysate.</li><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary</li><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:51 kDa.</li><li>-Observed band size:55 kDa(We are unsure as to the identity of these extra bands.)</li></ul> <p>2. CPM was immunoprecipitated using:</p> <ul style="list-style-type: none"><li>-Lane A:0.5 mg HepG2 Whole Cell Lysate.</li><li>-2 µL anti-CPM rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.</li><li>-Primary antibody:</li><li>-Anti-CPM rabbit monoclonal antibody, at 1:100 dilution.</li><li>-Secondary antibody:</li><li>-Clean-Blot<sup>®</sup> IP Detection Reagent (HRP) at 1:1000 dilution.</li><li>-Developed using the DAB staining technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 55 kDa.</li><li>-Observed band size: 55 kDa</li></ul>
Application:	ELISA,IP,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:5000-1:10000; IP: 1-4 µL/mg of lysate

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human Carboxypeptidase M / CPM Protein (TMPY-01313)

Antigen Species: Human

Synonyms: AA589379;E030045M14Rik;5730456K23Rik;1110060I01Rik;carboxypeptidase M

---

### Research Background

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481