

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carboxypeptidase M in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human CPE is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Carboxypeptidase M Leu18-Ser423 Accession # P14384
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CPM (Carboxypeptidase M) is a 50-65 kDa monomer that belongs to the regulatory CPN/E subfamily, peptidase M14 family of enzymes. It is widely expressed, being found on macrophages, fibroblasts, endothelial cells, oligodendrocytes and Schwann cells, dendritic cells, osteoblasts and bronchial epithelium. CPM is a GPI-linked glycoprotein that is best known as a peptidase that cleaves basic amino acids (aa) from the carboxyterminal of a number of peptides, including EGF and bradykinin. It is also known to bind to apparent substrates and undergo a conformational change that links it with the kinin B1 GPCR, initiating signal transduction. Mature human CPM is 406 aa in length (aa 18-423). It contains one large enzymatic region (aa 19-310) and two critical glutamic acid residues at Glu260 and Glu264. Like many GPI-linked proteins, CPM undergoes solubilization and is reportedly found in urine and amniotic fluid. Over aa 18-423 (mature CPM), human CPM shares 86% aa sequence identity with mouse CPM.

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