Human Carboxypeptidase M Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 848543

Catalog Number: FAB7457U

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carboxypeptidase M in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 848543
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Carboxypeptidase M Leu18-Ser423 Accession # P14384
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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.
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

Carboxypeptidase M (CPM) 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. Carboxypeptidase M 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 Carboxypeptidase M 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, Carboxypeptidase M undergoes solubilization and is reportedly found in urine and amniotic fluid. Over aa 18-423 (mature Carboxypeptidase M), human Carboxypeptidase M shares 86% aa sequence identity with mouse Carboxypeptidase M.

PRODUCT SPECIFIC NOTICES

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