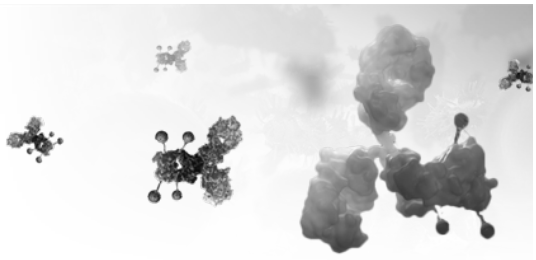

Mouse Anti-CPM monoclonal antibody, clone 8G0 (CABT-RM162)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Specifically detects carboxypeptidase M in rat tissues.
Target	CPM
Immunogen	Membrane fraction of E18.5 embryonic rat lung.
Isotype	IgG2b, κ
Source/Host	Mouse
Species Reactivity	Rat
Clone	8G0
Purification	Protein G purified
Conjugate	unconjugated
Applications	IF, IHC, IP, WB
Epitope	extracellular domain
Molecular Weight	50.32 kDa calculated.
Format	Liquid
Size	100 µg
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide

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Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	Carboxypeptidase M is encoded by the Cpm gene in rat. Rat CPM a glycosylphosphatidylinositol (GPI) anchored metallo-carboxypeptidase that cleaves basic carboxyl-terminal amino acids from various peptides at neutral pH. Rat CPM is synthesized with a signal peptide (aa 1-17), which is subsequently cleaved off to generate the mature form. The mature CPM displays high specificity and cleaves only C-terminal arginine or lysine residues in a variety of peptide substrates. It is shown to be expressed in the lung and placenta at high levels. Its expression is detected in alveolar cells lacking T1alpha, a type I cell marker protein found in adult lung. Carboxypeptidase M also serves as a macrophage differentiation marker, which is preferentially induced in epithelioid cells of all granuloma types studied, but not in resting macrophages. Hence, it can be employed for detection of minute granuloma even in the presence of non-granulomatous macrophages.
Keywords	CPM; carboxypeptidase M; renal carboxypeptidase; urinary carboxypeptidase B

GENE INFORMATION

Entrez Gene ID	314855
UniProt ID	D4A9Q5

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