



Rabbit Anti-CPXM antibody

SL8341R

Product Name:	CPXM
Chinese Name:	羧肽酶X(M14家族1)抗体
Alias:	Carboxypeptidase X (M14 family) member 1; Carboxypeptidase X member 1; CPX 1; CPX1; CPXM 1; CPXM1; Metallo-carboxypeptidase CPX 1; Probable carboxypeptidase X1; CPXM1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	80kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CPXM:251-350/734
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CPXM (carboxypeptidase X, member 1) belongs to the peptidase M14 family. However, no carboxypeptidase activity has yet been detected. It may be involved in cell-cell interactions.Members of the M14 metallo-carboxypeptidase protein family serve many diverse functions and are divided into three subfamilies based on structure, function and amino acid sequence similarity. Belonging to the N/E subfamily, CPXM

(metallocarboxypeptidase CPX-1) is a 734 amino acid protein that contains a F5/8 type C domain and likely binds one zinc ion per subunit. Most members of the N/E subfamily contain several domains, including an active carboxypeptidase domain and signal peptide, and are thought to function mostly in protein-protein interactions and/or protein-membrane interactions, thereby targeting the protein to specific locations within the secretory pathway. CPXM is a unique member of this subfamily in that it does not appear to exhibit any enzymatic activity due to lack of several active-site residues that are present in the catalytic domain of other members of the N/E subfamily. Studies showing that CPXM expression is regulated during osteoclastogenesis suggest that CPXM may play a role in osteoclast differentiation. There are two isoforms of CPXM which are a result of alternative splicing events.

Function:

May be involved in cell-cell interactions. No carboxypeptidase activity was found yet (By similarity).

Subcellular Location:

Secreted (By similarity).

Similarity:

Belongs to the peptidase M14 family.
Contains 1 F5/8 type C domain.

SWISS:

Q96SM3

Gene ID:

56265

Database links:

[Entrez Gene: 56265](#)Human

[Entrez Gene: 56264](#)Mouse

[Entrez Gene: 296156](#)Rat

[Omim: 609555](#)Human

[SwissProt: Q96SM3](#)Human

[SwissProt: Q9Z100](#)Mouse

[Unigene: 659346](#)Human

[Unigene: 112701](#)Mouse

[Unigene: 19382](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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