

bs-8341R**[Primary Antibody]****CPXM Rabbit pAb****BioSS**
ANTIBODIES

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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:50-200) ELISA (1:5000-10000) Reactivity: (predicted: Human, Mouse, Rat) Predicted MW.: 80 kDa Subcellular Location: Secreted
Clonality: Polyclonal		
GeneID: 56265	SWISS: Q96SM3	
Target: CPXM		
Immunogen: KLH conjugated synthetic peptide derived from human CPXM: 251-350/734.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: 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 metallocarboxypeptidase 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.		

— SELECTED CITATIONS —

- **[IF=2.924]** Pervaz, Sadaf. et al. Role of CPXM1 in Impaired Glucose Metabolism and Ovarian Dysfunction in Polycystic Ovary Syndrome. REPROD SCI. 2022 Jun;;1-18 IHC,IF, ;Mouse, Human. 35697923