

For Research Use Only

Carboxypeptidase D/CPD Recombinant monoclonal antibody, PBS Only

Catalog Number:83229-5-PBS



Basic Information

Catalog Number: 83229-5-PBS	GenBank Accession Number: NM_001304.4	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1362	CloneNo.: 260182E1
Isotype: IgG	UNIPROT ID: O75976-1	
Immunogen Catalog Number: EG5677	Full Name: carboxypeptidase D	
	Calculated MW: 153 kDa	
	Observed MW: 180-200 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

Carboxypeptidase D (CPD) is a membrane-bound metallo-carboxypeptidase that processes proteins and peptides during the secretory pathway, particularly by removing C-terminal arginine or lysine residues. Encoded by the CPD gene, it plays a regulatory role in peptide hormone processing and is also known to be a receptor for hepatitis B virus. Functioning as a regulatory type B carboxypeptidase, it typically acts on substrates within the trans-Golgi network and is recycled to the plasma membrane. With a predicted molecular weight of 152 kDa, CPD, as a membrane-bound glycoprotein, undergoes significant glycosylation modifications. The actual observed molecular weight is usually higher than the theoretical value; 180-200 kDa represents the typical apparent molecular weight range. This difference is primarily due to N-linked and O-linked glycosylations.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

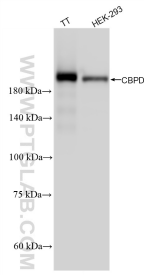
T: 4006900926

E: Proteintech-CN@ptglab.com

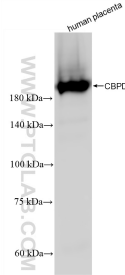
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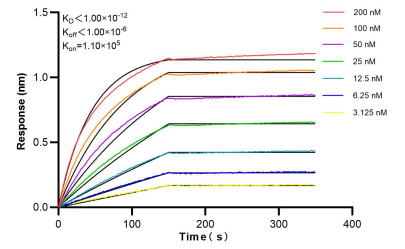
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83229-5-RR (CBPD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83229-5-PBS in a different storage buffer formulation.



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Biolayer interferometry (BLI) kinetic assays of 83229-5-RR against Human Carboxypeptidase D/CPD were performed. The affinity constant is below 1 pM.