

For Research Use Only

Carboxypeptidase D/CPD Recombinant monoclonal antibody

Catalog Number:83229-5-RR



Basic Information

Catalog Number: 83229-5-RR	GenBank Accession Number: NM_001304.4	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1362	CloneNo.: 260182E1
Isotype: IgG	UNIPROT ID: O75976-1	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: EG5677	Full Name: carboxypeptidase D	
	Calculated MW: 153 kDa	
	Observed MW: 180-200 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : TT cells, HEK-293 cells, human placenta tissue
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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

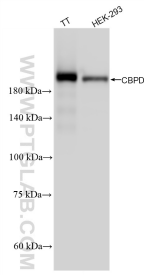
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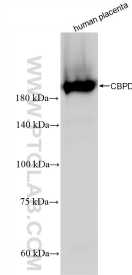
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Selected Validation Data



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.



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