For Research Use Only

CPO Polyclonal antibody, PBS Only

Catalog Number:26232-1-PBS

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Basic Information

Catalog Number:
26232-1-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG24059

GenBank Accession Number:
BC112078

GeneID (NCBI):
130749

UNIPROT ID:
Q8IVL8

Full Name:
carboxypeptidase O

Calculated MW:
374 aa, 43 kDa

Observed MW:
42 kDa

Purification Method:
Antigen affinity purification

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

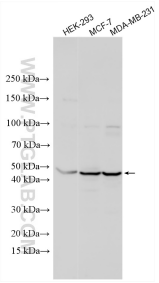
CPO (Carboxypeptidase O) is a member of the M14 family of metallocarboxypeptidases, belonging to the CPA subfamily. It is a GPI-anchored membrane-bound enzyme highly expressed on the brush-border membrane of intestinal epithelial cells. Unlike classical digestive carboxypeptidases such as CPA and CPB, which are secreted as inactive proenzymes, CPO is synthesized as an active enzyme without a prodomain. Its most distinctive biochemical feature is a strong substrate preference for C-terminal acidic amino acids, specifically glutamate and aspartate. This specificity distinguishes CPO from other family members. Its primary physiological role is to complete the digestion of dietary proteins by releasing acidic amino acids for efficient absorption in the small intestine.

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 W: ptgcn.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26232-1-AP (CPO antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 26232-1-PBS in a different storage buffer formulation.