

CPB (H-62): sc-98655

BACKGROUND

CPB (carboxypeptidase B), also known as CPB1, PASP (pancreas-specific protein) or PCPB, is a zinc-containing exopeptidase belonging to the A/B subfamily (or peptidase subfamily M14 A) of carboxypeptidases. CPB functions as a digestive carboxypeptidase and cleaves C-terminal basic amino acid residues from substrates. CPB is synthesized as an inactive zymogen in the endoplasmic reticulum of pancreatic acinar cells. It is then packaged into secretory granules and secreted into the lumen upon acinar cell stimulation. In the duodenum, CPB is activated by the cleavage of its N-terminal activation peptide (also known as CAPAP). CPB is widely recognized as a useful serum marker for acute pancreatitis and pancreatic graft rejection.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CPB1 (human) mapping to 3q24; Cpb1 (mouse) mapping to 3 A2.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

CPB (H-62) is a rabbit polyclonal antibody raised against amino acids 306-358 mapping within an internal region of CPB of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CPB (H-62) is recommended for detection of CPB of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CPB (H-62) is also recommended for detection of CPB in additional species, including canine.

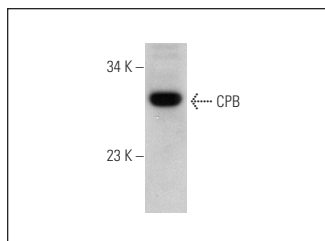
Suitable for use as control antibody for CPB siRNA (h): sc-77970, CPB siRNA (m): sc-142541, CPB shRNA Plasmid (h): sc-77970-SH, CPB shRNA Plasmid (m): sc-142541-SH, CPB shRNA (h) Lentiviral Particles: sc-77970-V and CPB shRNA (m) Lentiviral Particles: sc-142541-V.

Molecular Weight of CPB proenzyme: 45 kDa.

Molecular Weight of CPB active enzyme: 35 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

DATA



CPB (H-62): sc-98655. Western blot analysis of CPB expression in HeLa whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

MONOS
Satisfaction
Guaranteed

Try **CPB (D-3): sc-271869**, our highly recommended monoclonal alternative to CPB (H-62).