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Datasheet for ABIN7317552 CPB2 Protein (His tag)

Overview

Quantity:	100 µg
Target:	CPB2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPB2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carboxypeptidase B2/CPB2 Protein (His Tag)
Sequence:	Met 1-Val 423
Characteristics:	A DNA sequence encoding the human CPB2 (NP_001863.2) extracellular domain (Met 1-Val 423) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CPB2
Alternative Name:	Carboxypeptidase B2/CPB2 (CPB2 Products)
Background:	Background: Carboxypeptidase B2, also known as Carboxypeptidase U, Thrombin-activable fibrinolysis inhibitor, Plasma carboxypeptidase B, CPB2, is a secreted protein which belongs to the peptidase M14 family. Carboxypeptidases are enzymes that hydrolyze C-terminal peptide

Target Details

bonds. The carboxypeptidase family includes metallo-, serine, and cysteine carboxypeptidases. According to their substrate specificity, these enzymes are referred to as carboxypeptidase A (cleaving aliphatic residues) or carboxypeptidase B (cleaving basic amino residues). CPB2 is activated by thrombin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. CPB2 is synthesized by the liver and circulates in the plasma as a plasminogen-bound zymogen. When it is activated by proteolysis at residue Arg92 by the thrombin / thrombomodulin complex. CPB2 cleaves C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins in the circulation thereby regulating their activities. CPB2 exhibits carboxypeptidase activity and activated CPB2 reduces fibrinolysis by removing the fibrin C-terminal residues that are important for the binding and activation of plasminogen.

Synonym: Carboxypeptidase B2, Carboxypeptidase U, CPU, Plasma Carboxypeptidase B, pCPB, Thrombin-Activable Fibrinolysis Inhibitor, TAFI, CPB2

Molecular Weight:	47.4 kDa
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NCBI Accession:	NP_001863
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Pathways:	Regulation of Actin Filament Polymerization , Carbohydrate Homeostasis
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile PBS, pH 7.4
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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