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ARG42692
anti-Carboxypeptidase B2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Carboxypeptidase B2
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Carboxypeptidase B2
Species	Human
Immunogen	Recombinant protein corresponding to K166-D388 of Human Carboxypeptidase B2.
Conjugation	Un-conjugated
Alternate Names	Plasma carboxypeptidase B; Thrombin-activable fibrinolysis inhibitor; PCPB; Carboxypeptidase B2; TAFI; pCPB; EC 3.4.17.20; CPU; Carboxypeptidase U

Application Instructions

Application table

Application	Dilution
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

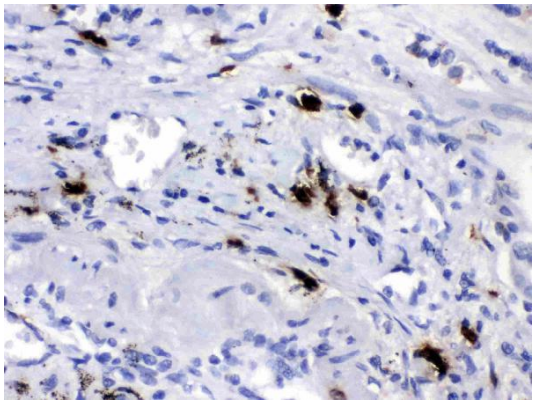
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

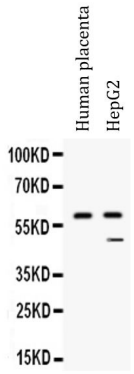
Gene Symbol	CPB2
Gene Full Name	carboxypeptidase B2 (plasma)
Background	Carboxypeptidases are enzymes that hydrolyze C-terminal peptide bonds. The carboxypeptidase family includes metallo-, serine, and cysteine carboxypeptidases. According to their substrate specificity, these enzymes are referred to as carboxypeptidase A (cleaving aliphatic residues) or carboxypeptidase B (cleaving basic amino residues). The protein encoded by this gene is activated by trypsin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. Polymorphisms have been described for this gene and its promoter region. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]
Function	Cleaves C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins in the circulation thereby regulating their activities. Down-regulates fibrinolysis by removing C-terminal lysine residues from fibrin that has already been partially degraded by plasmin. [UniProt]
Calculated Mw	48 kDa
PTM	N-glycosylated. N-glycan at Asn-108: Hex5HexNAc4. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG42692 anti-Carboxypeptidase B2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue stained with ARG42692 anti-Carboxypeptidase B2 antibody at 1 µg/ml dilution.



ARG42692 anti-Carboxypeptidase B2 antibody WB image

Western blot: Human placenta and HepG2 whole cell lysates stained with ARG42692 anti-Carboxypeptidase B2 antibody at 0.5 µg/ml dilution.