

Rabbit CPS1 Monoclonal Antibody | anti-CPS1 antibody

CPS1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA312637	Rabbit	Human, Mouse, Rat	Immunoprecipitation, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot

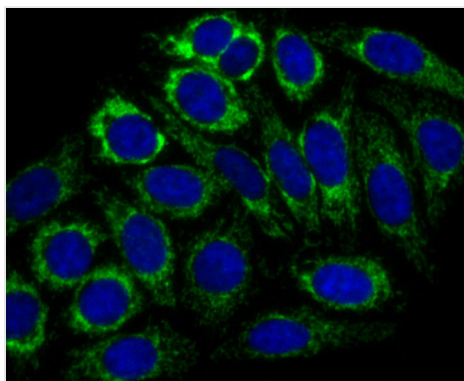
PRODUCT SYNONYMS

CPS1; Monoclonal Antibody; CPS1 Antibody; Carbamoyl phosphate synthase [ammonia] antibody; Carbamoyl phosphate synthase [ammonia] mitochondrial antibody; Carbamoyl phosphate synthase antibody; Carbamoyl phosphate synthetase 1 antibody; Carbamoyl phosphate synthetase 1 mitochondrial antibody; Carbamoyl phosphate synthetase I antibody; Carbamoyl-phosphate synthase [ammonia] antibody; Carbamoyl-phosphate synthetase I antibody; Carbamoylphosphate synthase antibody; Carbamoylphosphate synthetase 1 antibody; Carbamoylphosphate synthetase I antibody; CPS 1 antibody; Cps1 antibody; CPSase 1 antibody; CPSase I antibody; CPSASE1 antibody; CPSM_HUMAN antibody; mitochondrial antibody; MS738 antibody; anti-CPS1 antibody

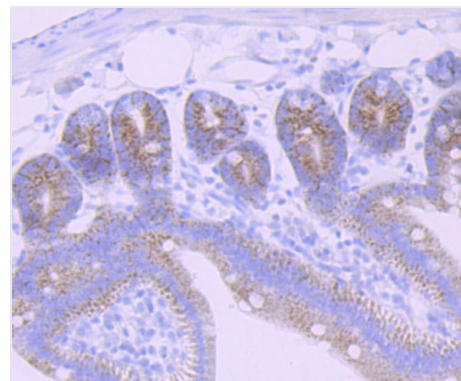
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JB40-33
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-CPS1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

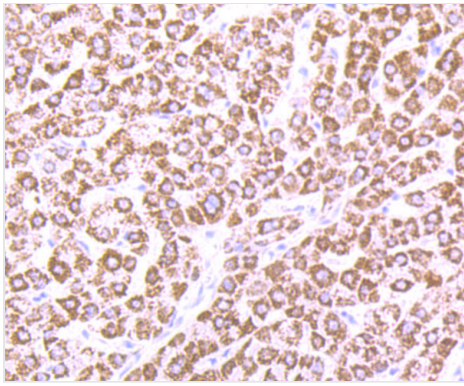
IMAGES


ICC (Immunocytochemistry)

ICC staining CPS1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

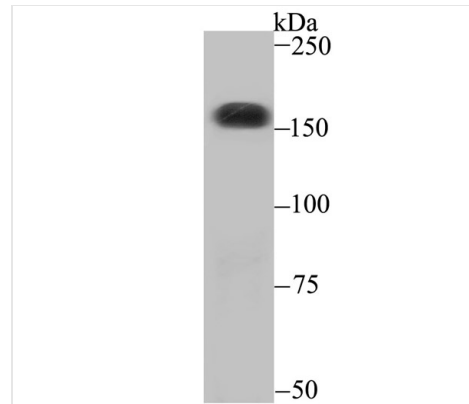

IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-CPS1 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-CPS1 antibody. Counter stained with hematoxylin.



WB (Western Blot)

Western blot analysis of CPS1 on SiHa cell using anti-CPS1 antibody at 1/500 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-CPS1 antibody	The multicomplex protein, carbamoyl-phosphate synthetase-aspartate carbamoyl transferase-dihydro-orotase (CAD), consists of three distinct proteins, carbamoyl phosphate synthetase 2 (CPS2), aspartate transcarbamylase, and dihydro-orotase, which catalyze the second and third steps of pyrimidine biosynthesis. CAD is allosterically regulated by the phosphorylation of CPS2 by cyclic AMP-dependent protein kinase, and this activation enables CPS2 to catalyze the rate-limiting step of pyrimidine synthesis. CAD is expressed in brain and skeletal muscle. A related protein, carbamoyl phosphate synthetase 1 (CPS1) is expressed in liver. CPS1 catalyzes the rate-limiting step in the urea cycle, and deficiency of CPS1 is an autosomal recessive disorder that causes hyperammonemia.
Product Categories/Family for anti-CPS1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361331
NCBI GeneID	1373
NCBI Accession #	NP_001866.2
NCBI GenBank Nucleotide #	NM_001875.4
UniProt Accession #	P31327 ; O43774 ; Q53TL5 ; Q59HF8 ; Q7Z5I5 ; B7Z818 ; J3KQL0
Molecular Weight	165,650 Da
NCBI Official Full Name	carbamoyl-phosphate synthase
NCBI Official Synonym Full Names	carbamoyl-phosphate synthase 1, mitochondrial
NCBI Official Symbol	CPS1
NCBI Official Synonym Symbols	PHN; CPSASE1
NCBI Protein Information	carbamoyl-phosphate synthase [ammonia], mitochondrial; carbamoyl-phosphate synthase [ammonia], mitochondrial; carbamoylphosphate synthetase I
UniProt Protein Name	Carbamoyl-phosphate synthase [ammonia], mitochondrial
UniProt Gene Name	CPS1
UniProt Synonym Gene Names	CPSase I
UniProt Entry Name	CPSM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

