

Anti-CPS1 Antibody (3F443)

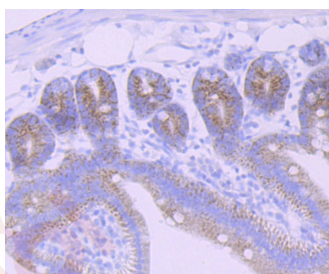
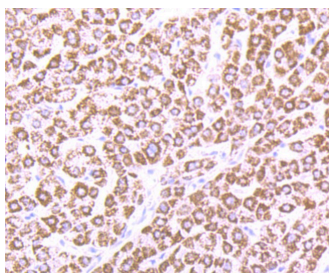
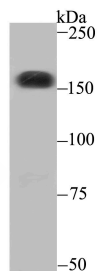
Product Details

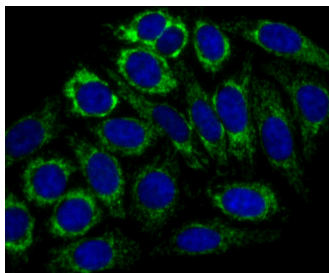
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 165 kDa.
Clone:	3F443
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of CPS1 on SiHa cell using anti-CPS1 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-CPS1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-CPS1 antibody. Counter stained with hematoxylin.
4. 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.





Application: ICC,IF,IHC,IP,WB

Recommended WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P31327

Synonyms: Cps1; Carbamoyl-phosphate synthetase I (CPSase I); mitochondrial; Carbamoyl-phosphate synthase [ammonia], mitochondrial

Research Background

The multicomplex protein, carbamoyl-phosphate synthetase-aspartate carbamoyl transferase-dihydro-ototase (CAD), consists of three distinct proteins, carbamoyl phosphate synthetase 2 (CPS2), aspartate transcarbamylase, and dihydro-ototase, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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