

Rabbit anti-Human CPS1 Polyclonal Antibody | anti-CPS1 antibody

Anti-CPS1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256596	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CPS1; Polyclonal Antibody; Anti-CPS1 Antibody; Rabbit Polyclonal; CPS1 Antibody; Rabbit PAb; Antigen Affinity Purified; anti-CPS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CPS1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-CPS1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human CPS1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human CPS1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

CPS1 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate 4 uL anti-CPS1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-CPS1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 165 kDa. Observed band size: 165 kDa.



IHC (Immunohistochemistry)

Immunochemical staining of human CPS1 in human small intestine with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human CPS1 in human liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-CPS1 rabbit polyclonal antibody at 1:5000 dilution Lane A: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 165 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CPS1 antibody

Carbamoyl phosphate synthetase-1 (CPS1), the first rate-limiting mitochondrial enzyme in the urea cycle, regulates proliferation and differentiation during tumor progression. KL cells express the urea cycle enzyme carbamoyl phosphate synthetase-1 (CPS1), which produces carbamoyl phosphate in the mitochondria from ammonia and bicarbonate, initiating nitrogen disposal. CPS1 is the major mitochondrial urea cycle enzyme in hepatocytes. It is released into the mouse and human blood during acute liver injury, where it has a short half-life. Carbamoyl phosphate synthetase 1 (CPS1) deficiency (CPS1D) is a rare autosomal recessive urea cycle disorder (UCD), which can lead to life-threatening hyperammonemia or severe neurological impairment. CPS1 catalyzes carbamoyl phosphate formation from ammonia, bicarbonate, and two molecules of ATP, and requires the allosteric activator N-acetyl-L-glutamate.

References

Wu G, et al. (2019) Expression and clinical significance of cps1 in glioblastoma multiforme. Curr Res Transl Med 67 (4): 123-128. Park MJ, et al. (2019) Constitutive release of cps1 in bile and its role as a protective cytokine during acute liver injury. Proc Natl Acad Sci U S A 116 (18): 9125-9134. Kim J, et al. (2019) Author correction: Cps1 maintains pyrimidine pools and DNA synthesis in kras/lkb1-mutant lung cancer cells. Nature 569 (7756): E4. Hu L, et al. (2014) Recurrence of carbamoyl phosphate synthetase 1 (cps1) deficiency in turkish patients: Characterization of a founder mutation by use of recombinant cps1 from insect cells expression. Mol Genet Metab 113 (4): 267-273.

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cps1-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/256596>