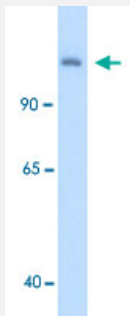


CPS1 polyclonal antibody

Catalog # PAB29926

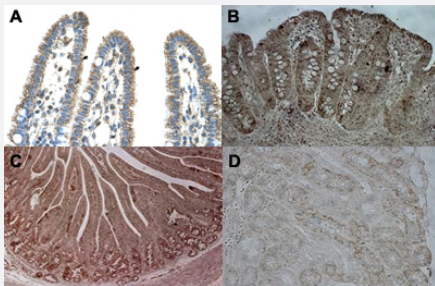
Size 100 uL

Applications



Western Blot (Tissue lysate)

Western Blot analysis of human fetal liver tissue lysate with CPS1 polyclonal antibody (Cat # PAB29926) at 5 ug/mL working concentration.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human intestine (A), pig ileum (B), pig duodenum (C) and pig kidney (D) with CPS1 polyclonal antibody (Cat # PAB29926).

Specification

Product Description Rabbit polyclonal antibody raised against synthetic peptide of human CPS1.

Immunogen A synthetic peptide corresponding to internal region of human CPS1.

Sequence YPSVTNYLYVTYNGQEHDVNFDDHGMMVLGCGPYHIGSSVEFDWCAVSSI

Host Rabbit

Theoretical MW (kDa) 165

Reactivity Human, Pig

Form Liquid

Purification	Protein A purification
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (4-8 ug/mL) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (2% sucrose, 0.09% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — CPS1

Entrez GeneID	1373
GeneBank Accession#	NM_001875
Protein Accession#	NP_001866:P31327
Gene Name	CPS1
Gene Alias	-
Gene Description	carbamoyl-phosphate synthetase 1, mitochondrial
Omim ID	237300 608307
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is an enzyme that catalyzes the first committed step of the hepatic urea cycle, which is important in the removal of excess urea from cells. There are two isozymes of this enzyme, and the encoded protein is the mitochondrial form. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. [provided by RefSeq]

Other Designations

CPSase II|carbamoyl-phosphate synthetase 1|carbamoylphosphate synthetase I

Pathway

- [Alanine](#)
- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)
- [Nitrogen metabolism](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Down Syndrome](#)
- [Edema](#)
- [Enterocolitis](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Postoperative Complications](#)
- [Premature Birth](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)