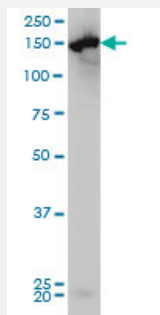


CPS1 monoclonal antibody (M01), clone 8H8

Catalog # H00001373-M01

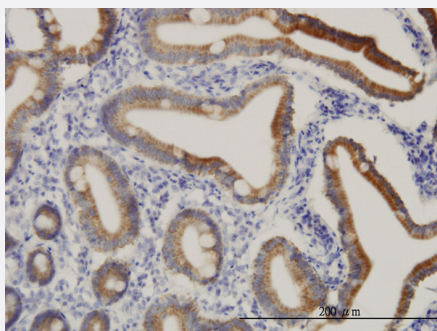
Size 100 ug

Applications



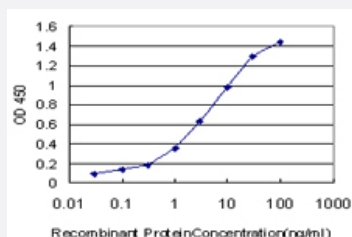
Western Blot (Cell lysate)

CPS1 monoclonal antibody (M01), clone 8H8 Western Blot analysis of CPS1 expression in HeLa (Cat # L013V1).



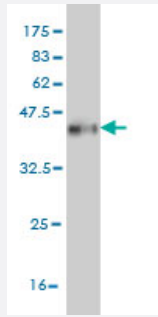
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CPS1 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CPS1 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.85 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CPS1.
Immunogen	CPS1 (NP_001866, 1400 a.a. ~ 1500 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	ANNVPATPVAWPSQEGQNPSLSSIRKLIRDGSIDLVINLPNNNTK FVHDNYVIRRTAVDSGIPLLTNF QVTKLFAEAVQKSRKVDSKSLFHYRQYSAGKAA
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (97)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.85 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

CPS1 monoclonal antibody (M01), clone 8H8 Western Blot analysis of CPS1 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to CPS1 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CPS1 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — CPS1

Entrez GeneID [1373](#)

GeneBank Accession# [NM_001875](#)

Protein Accession# [NP_001866](#)

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 I|carbamoyl-phosphate synthetase 1|carbamoylphosphate synthetase I

Publication Reference

- [Identification of a mitochondrial defect gene signature reveals NUPR1 as a key regulator of liver cancer progression.](#)

Lee YK, Jee BA, Kwon SM, Yoon YS, Xu WG, Wang HJ, Wang XW, Thorgeirsson SS, Lee JS, Woo HG, Yoon G.

Hepatology 2015 Oct; 62(4):1174.

Application: WB, Human, Mouse, Rat, HDF, C2C12, H9C2, THLE2, THLE3 cells

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](#)
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- [Tobacco Use Disorder](#)