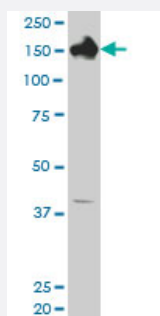


CPS1 monoclonal antibody (M02), clone 4A10

Catalog # H00001373-M02

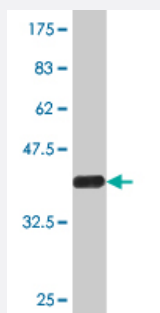
Size 100 ug

Applications



Western Blot (Cell lysate)

CPS1 monoclonal antibody (M02), clone 4A10. Western Blot analysis of CPS1 expression in HeLa (Cat # L013V1).



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	ANNVPATPVAWPSQEGQNPSLSSIRKLIRDGSIDLVINLPNNNTKVFHDNYVIRRTAVDSGIPLLTNFQVTKLFAEAVQKSRKVDSKSLFHYRQYSAGKAA
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (98); Rat (97)
Isotype	IgG1 Lambda
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 (M02), clone 4A10. Western Blot analysis of CPS1 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[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 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](#)
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- [Kidney Failure](#)
- [Postoperative Complications](#)
- [Premature Birth](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)