

Product datasheet

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ARG56184 anti-CPS1 antibody [CPS1/1022]

Package: 50 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [CPS1/1022] recognizes CPS1

Tested Reactivity Hu

Tested Application IHC-P

Host Mouse

Clonality Monoclonal
Clone CPS1/1022

Isotype IgG1
Target Name CPS1
Species Human

Immunogen Recombinant human CPS1 protein.

Conjugation Un-conjugated

Alternate Names CPSASE1; Carbamoyl-phosphate synthase [ammonia], mitochondrial; CPSase I; PHN; Carbamoyl-

phosphate synthetase I; EC 6.3.4.16

should be determined by the scientist.

Application Instructions

Application table	Application	Dilution
	IHC-P	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA.

Preservative 0.05% Sodium azide

Stabilizer 0.1 mg/ml BSA

Concentration 0.2 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Bioinformation

Database links GenelD: 1373 Human

Swiss-port # P31327 Human

Gene Symbol CPS1

Gene Full Name carbamoyl-phosphate synthase 1, mitochondrial

Background The mitochondrial enzyme encoded by this gene catalyzes synthesis of carbamoyl phosphate from

ammonia and bicarbonate. This reaction is the first committed step of the urea cycle, which is important in the removal of excess urea from cells. The encoded protein may also represent a core mitochondrial nucleoid protein. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. Mutations in this gene have been associated with carbamoyl phosphate synthetase deficiency, susceptibility to persistent

pulmonary hypertension, and susceptibility to venoocclusive disease after bone marrow

transplantation.[provided by RefSeq, May 2010]

Function Involved in the urea cycle of ureotelic animals where the enzyme plays an important role in removing

excess ammonia from the cell. [UniProt]

Calculated Mw 165 kDa

PTM Undergoes proteolytic cleavage in the C-terminal region corresponding to the loss of approximately 12

AA residues from the C-terminus.

Succinylated at Lys-287 and Lys-1291. Desuccinylated at Lys-1291 by SIRT5, leading to activation (By

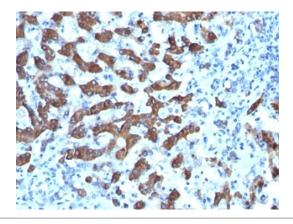
similarity).

Glutarylated. Glutarylation levels increase during fasting. Deglutarylated by SIRT5 at Lys-55, Lys-219,

Lys-412, Lys-889, Lys-892, Lys-915, Lys-1360 and Lys-1486, leading to activation.

Cellular Localization Finely granular cytoplasmic

Images



ARG56184 anti-CPS1 antibody [CPS1/1022] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocellular carcinoma stained with ARG56184 anti-CPS1 antibody [CPS1/1022].