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KD-Validated Anti-Carbamoyl-phosphate synthase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1107

Specification

KD-Validated Anti-Carbamoyl-phosphate synthase 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	P31327
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 165 kDa , observed, 150 kDa KDa**
Gene Name	**CPS1**
Aliases	**CPS1; Carbamoyl-Phosphate Synthase 1; GATD6; Carbamoyl-Phosphate Synthase [Ammonia], Mitochondrial; Carbamoyl-Phosphate Synthase 1, Mitochondrial; Carbamoyl-Phosphate Synthase (Ammonia); EC 6.3.4.16; Carbamoyl-Phosphate Synthetase 1, Mitochondrial; Carbamoyl-Phosphate Synthetase I; Carbamoylphosphate Synthetase I; CPSase I; CPSASE1; PHN**
Immunogen	**A synthesized peptide derived from human CPS1**

KD-Validated Anti-Carbamoyl-phosphate synthase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**1373**

Other Names
Carbamoyl-phosphate synthase [ammonia], mitochondrial, 6.3.4.16, Carbamoyl-phosphate synthetase I, CPSase I, CPS1

KD-Validated Anti-Carbamoyl-phosphate synthase 1 Rabbit Monoclonal Antibody - Protein Information

Name CPS1

Function
Involved in the urea cycle of ureotelic animals where the enzyme plays an important role in removing excess ammonia from the cell.

Cellular Location
Mitochondrion. Nucleus, nucleolus. Cell membrane {ECO:0000250|UniProtKB:Q8C196}; Peripheral membrane protein; Extracellular side {ECO:0000250|UniProtKB:Q8C196} Note=Localizes to the

cell surface of hepatocytes {ECO:0000250|UniProtKB:Q8C196}

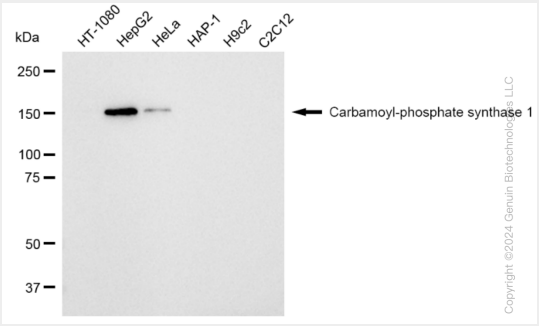
Tissue Location
Primarily in the liver and small intestine.

KD-Validated Anti-Carbamoyl-phosphate synthase 1 Rabbit Monoclonal Antibody - Protocols

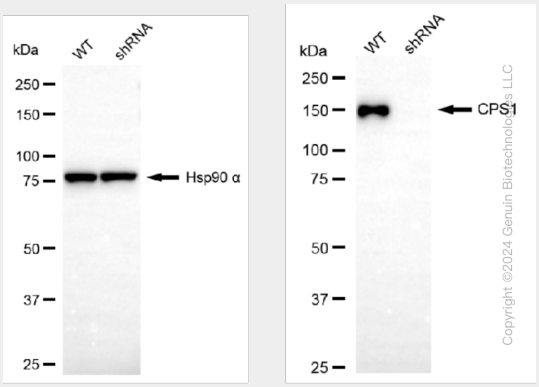
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Carbamoyl-phosphate synthase 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Carbamoyl-phosphate synthase 1 antibody (Cat#AGI1107). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Carbamoyl-phosphate synthase 1 antibody (Cat#AGI1107, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Carbamoyl-phosphate synthase 1 antibody (Cat#AGI1107). Carbamoyl-phosphate synthase 1 expression in wild type (WT) and carbamoyl-phosphate synthase 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Carbamoyl-phosphate synthase 1 antibody (Cat#AGI1107, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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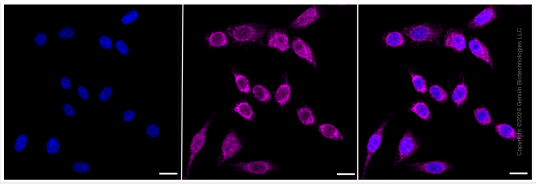

Immunocytochemical staining of HepG2 cells with Carbamoyl-phosphate synthase 1 antibody (Cat#AGI1107, 1:1,000). Nuclei were stained blue with DAPI; Carbamoyl-phosphate synthase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.