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Datasheet for ABIN6942622  
**anti-CPS1 antibody (AA 1351-1500)**

### Overview

Quantity:	100 µL
Target:	CPS1
Binding Specificity:	AA 1351-1500
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CPS1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CPS1
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Sheep
Purification:	Purified by Protein A.

### Target Details

Target:	CPS1
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## Target Details

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Alternative Name: [CPS1 \(CPS1 Products\)](#)

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Background: Synonyms: Carbamoyl phosphate synthase [ammonia], Carbamoyl phosphate synthase [ammonia] mitochondrial, Carbamoyl phosphate synthase, Carbamoyl phosphate synthetase 1, Carbamoyl phosphate synthetase 1 mitochondrial, Carbamoyl phosphate synthetase I, Carbamoyl-phosphate synthase [ammonia], Carbamoyl-phosphate synthetase I, Carbamoylphosphate synthase, Carbamoylphosphate synthetase 1, Carbamoylphosphate synthetase I, CPS 1, Cps1, CPSase 1, CPSase I, CPSASE1, CPSM\_HUMAN, mitochondrial, MS738.

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]

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Gene ID: 1373

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UniProt: [P31327](#)

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Pathways: [Response to Growth Hormone Stimulus, Cellular Glucan Metabolic Process](#)

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## Application Details

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Application Notes: ELISA 1:500-1000  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200  
ICC 1:100-500

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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## Handling

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Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months