## **CPS1 Polyclonal Antibody**

Catalog Number: E-AB-63870



Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

Reactivity Human, Mouse, Rat

**Immunogen** Recombinant fusion protein of human CPS1 (NP\_001116105.1).

Host Rabbit
Isotype IgG

**Purification** Affinity purification

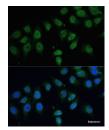
Conjugation Unconjugated

**Formulation** PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Applications** Recommended Dilution

**IF** 1:50-1:200

### Data



Immunofluorescence analysis of HeLa cells using CPS1 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

# Preparation & Storage

**Storage** Store at -20°C. Avoid freeze / thaw cycles.

## **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.

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