

## THG1L Rabbit pAb

CatalogNo: YN7107

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 33kD (Calculated)

#### Isotype

- IgG

### | Recommended Dilution Ratios

WB 1:500-2000

### | Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Basic Information

**Clonality** Polyclonal

### | Immunogen Information

**Immunogen** Synthesized peptide derived from human THG1L

**Specificity** This antibody detects endogenous levels of THG1L at Human, Mouse, Rat

### | Target Information

**Gene name** THG1L ICF45

**Protein Name** Probable tRNA(His) guanylyltransferase (Interphase cytoplasmic foci protein 45) (tRNA-histidine guanylyltransferase)

Organism	Gene ID	UniProt ID
Human	<a href="#">54974</a> ;	<a href="#">Q9NWX6</a> ;
Mouse	<a href="#">66628</a> ;	<a href="#">Q9CY52</a> ;
Rat	<a href="#">303067</a> ;	<a href="#">Q5M965</a> ;

**Cellular Localization** Cytoplasm . Mitochondrion outer membrane .

**Tissue specificity** Expressed in many tissues.

**Function** Adds a GMP to the 5'-end of tRNA(His) after transcription and RNase P cleavage. This step is essential for proper recognition of the tRNA and for the fidelity of protein synthesis (Probable). Also functions as a guanyl-nucleotide exchange factor/GEF for the MFN1 and MFN2 mitofusins thereby regulating mitochondrial fusion . By regulating both mitochondrial dynamics and bioenergetic function, it contributes to cell survival following oxidative stress .

## | Validation Data

## | Contact information

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**THG1L Rabbit pAb**

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