10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# THG1L antibody - middle region
**Rabbit Polyclonal Antibody**
**Catalog # AI12849**

## Specification

### THG1L antibody - middle region - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | Q9NWX6 |
| Other Accession | NM_017872, NP_060342 |
| Reactivity | **Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Yeast, Bovine, Guinea Pig, Dog** |
| Predicted | **Human, Chicken, Guinea Pig, Dog** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **35kDa KDa** |

### THG1L antibody - middle region - Additional Information

**Gene ID** 54974

| | |
|---|---|
| Alias Symbol | **FLJ11601, FLJ20546, ICF45** |

**Other Names**
Probable tRNA(His) guanylyltransferase, 2.7.7.79, Interphase cytoplasmic foci protein 45, tRNA-histidine guanylyltransferase, THG1L, ICF45

**Format**
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**
Add 50 ul of distilled water. Final anti-THG1L antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**
THG1L antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

### THG1L antibody - middle region - Protein Information

**Name** THG1L

**Synonyms** ICF45

**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 (PubMed:<a href="http://www.uniprot.org/citations/25008184" target="_blank">25008184</a>, PubMed:<a href="http://www.uniprot.org/citations/27307223"

target="_blank">27307223</a>). By regulating both mitochondrial dynamics and bioenergetic function, it contributes to cell survival following oxidative stress (PubMed:<a href="http://www.uniprot.org/citations/25008184" target="_blank">25008184</a>, PubMed:<a href="http://www.uniprot.org/citations/27307223" target="_blank">27307223</a>).

**Cellular Location**
Cytoplasm. Mitochondrion outer membrane

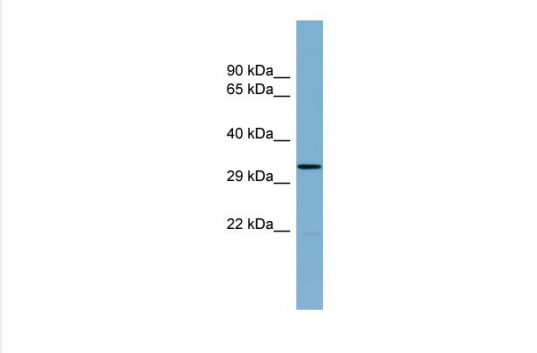
**Tissue Location**
Expressed in many tissues.

## THG1L antibody - middle region - 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

## THG1L antibody - middle region - Images




WB Suggested Anti-THG1L Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Human Spleen

## THG1L antibody - middle region - References

Guo,D.,(2004)J.Biol.Chem.279(51),53498-53505ReconstitutionandStorage:Forshorttermuse,storeat 2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.