

Tryptophanyl-tRNA synthetase 1 Rabbit mAb

Catalog No.: A22440 Recombinant

Basic Information

Observed MW

53kDa

Calculated MW

53kDa

Category

Primary antibody

Applications

WB,IHC-P,ELISA

Cross-Reactivity

Human

CloneNo number

ARC2687

Background

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. Tryptophanyl-tRNA synthetase (WARS) catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. Tryptophanyl-tRNA synthetase belongs to the class I tRNA synthetase family. Four transcript variants encoding two different isoforms have been found for this gene.

Recommended Dilutions

WB 1:1000 - 1:4000

IHC-P 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

7453

Swiss Prot

P23381

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 372-471 of human Tryptophanyl-tRNA synthetase 1 (P23381).

Synonyms

HMN9; WARS; IFI53; IFP53; GAMMA-2; Tryptophanyl-tRNA synthetase 1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

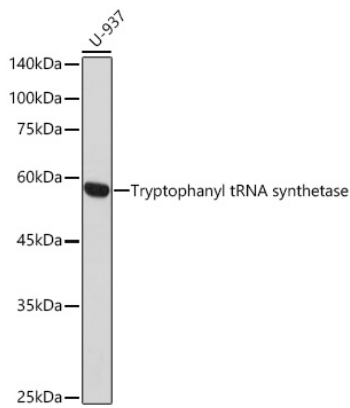
Affinity purification

Storage

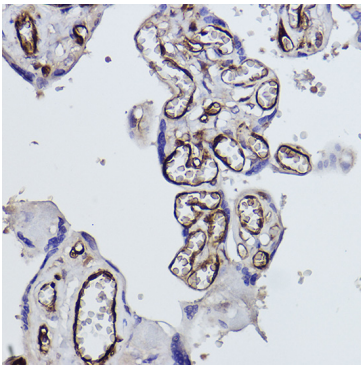
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from U-937 cells using Tryptophanyl-tRNA synthetase 1 Rabbit mAb (A22440) at 1:1000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Immunohistochemistry analysis of paraffin-embedded Human placenta using Tryptophanyl-tRNA synthetase 1 Rabbit mAb (A22440) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.