
Product Name: KD-Validated Tryptophanyl-TRNA Synthetase 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01847**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 53.2kDa

Antigen Information

Gene Name	WARS1
Alternative Names	WARS1; Tryptophanyl-TRNA Synthetase 1; IFP53; IFI53; WARS; Tryptophan TRNA Ligase 1, Cytoplasmic; Tryptophan--TRNA Ligase, Cytoplasmic; Interferon-Induced Protein 53; Tryptophanyl-TRNA Synthetase; EC 6.1.1.2; TrpRS; HWRS; Epididymis Secretory Sperm Binding Protein; EC 6.1.1; GAMMA-2; NEDMSBA; HMND9; HMN9; WRS
Gene ID	7453.0
SwissProt ID	P23381
Immunogen	A synthesized peptide derived from human Tryptophanyl tRNA synthetase

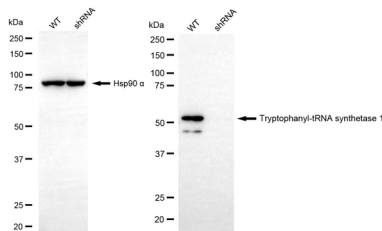
Background

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. [provided by RefSeq, Jul 2008]

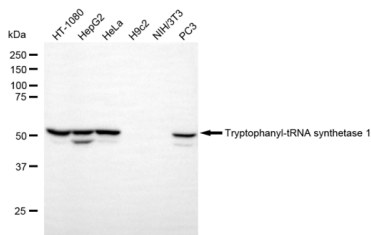
Research Area

Cancer, Cell Biology

Image Data



Western blotting analysis using tryptophanyl-tRNA synthetase 1 antibody (KVA01847). Tryptophanyl-tRNA synthetase 1 expression in wild-type (WT) and tryptophanyl-tRNA synthetase 1 (WARS1) shRNA knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with tryptophanyl-tRNA synthetase 1 antibody (KVA01847, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Tryptophanyl-tRNA synthetase 1 antibody (KVA01847). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Tryptophanyl-tRNA synthetase 1 antibody (KVA01847, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.