

Tryptophanyl tRNA synthetase Rabbit mAb

Catalog # AP74835

Product Information

Application	WB, IHC-P, FC
Primary Accession	P23381
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	53165

Additional Information

Gene ID	7453
Other Names	WARS1
Dilution	WB~~1:500-1:1000 IHC-P~~N/A FC~~1:200-1:500
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

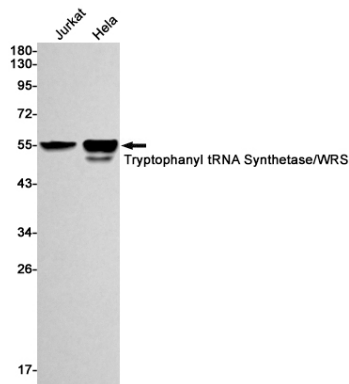
Name	WARS1 (HGNC:12729)
Synonyms	IFI53, WARS, WRS
Function	Catalyzes the attachment of tryptophan to tRNA(Trp) in a two- step reaction: tryptophan is first activated by ATP to form Trp-AMP and then transferred to the acceptor end of the tRNA(Trp).
Cellular Location	Cytoplasm.

Background

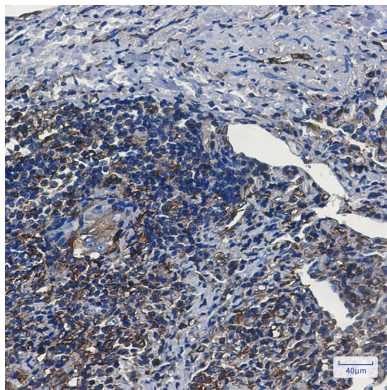
Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of

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.

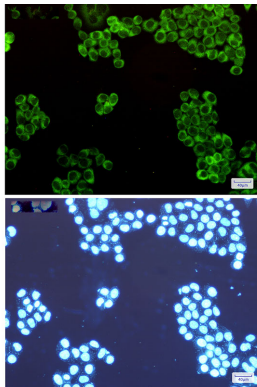
Images



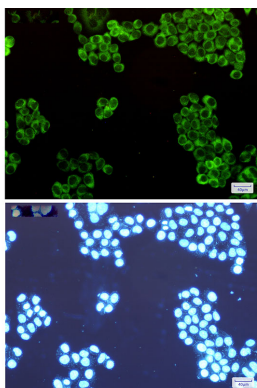
Western blot analysis of Tryptophanyl tRNA Synthetase/WRS in Jurkat, HeLa lysates using Tryptophan tRNA Ligase antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using Tryptophanyl tRNA Synthetase/WRS antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of Tryptophanyl tRNA Synthetase/WRS (green) in HeLa using Tryptophanyl tRNA Synthetase/WRS antibody, and DAPI (blue)



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