

Product datasheet

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ARG41026 anti-WARS / TrpRS antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes WARS / TrpRS

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name WARS / TrpRS

Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-270 of Human WARS (NP_776049.1).

Conjugation Un-conjugated

Alternate Names GAMMA-2; Tryptophanyl-tRNA synthetase; Tryptophan--tRNA ligase, cytoplasmic; hWRS; EC 6.1.1.2;

TrpRS; Interferon-induced protein 53; IFP53; IFI53

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	MCF7	
Observed Size	55 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol WARS

Gene Full Name 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]

Function Isoform 1, isoform 2 and T1-TrpRS have aminoacylation activity while T2-TrpRS lacks it. Isoform 2,

T1-TrpRS and T2-TrpRS possess angiostatic activity whereas isoform 1 lacks it. T2-TrpRS inhibits fluid shear stress-activated responses of endothelial cells. Regulates ERK, Akt, and eNOS activation pathways that are associated with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene

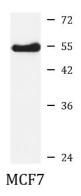
expression. [UniProt]

Calculated Mw 53 kDa

PTM Proteolytic cleavage generates 2 forms; T1-TrpRS and T2-TrpRS. [UniProt]

Cellular Localization Cytoplasm. [UniProt]

Images



ARG41026 anti-WARS / TrpRS antibody WB image

Western blot: 25 μg of MCF7 cell lysate stained with ARG41026 anti-WARS / TrpRS antibody at 1:1000 dilution.