

## 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.