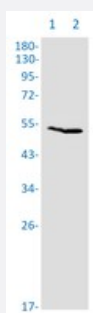


RecomAb™

WARS1 recombinant monoclonal antibody, clone R06-5I7

Catalog # RAB04424 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: mouse brain tissue and Lane 2: rat brain tissue with WARS1 recombinant monoclonal antibody, clone R06-5I7 (Cat # RAB04424).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human WARS1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human WARS1.
Theoretical MW (kDa)	Calculated MW: 53 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: mouse brain tissue and Lane 2: rat brain tissue with WARS1 recombinant monoclonal antibody, clone R06-5I7 (Cat # RAB04424).

- Immunohistochemistry

Gene Info — WARS

Entrez GeneID[7453](#)**Protein Accession#**[P23381](#)**Gene Name**

WARS

Gene Alias

GAMMA-2, IFI53, IFP53

Gene Description

tryptophanyl-tRNA synthetase

Omim ID[191050](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

Other Designations

interferon-induced protein 53|tryptophan tRNA ligase 1, cytoplasmic

Pathway

- [Aminoacyl-tRNA biosynthesis](#)
- [Tryptophan metabolism](#)

Disease

- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Myocardial Infarction](#)