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Datasheet for ABIN1714661
anti-RARS antibody (AA 401-500)

Overview

Quantity:	100 µL
Target:	RARS
Binding Specificity:	AA 401-500
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RARS antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ArgRS/Arginyl tRNA synthase
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	RARS
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Target Details

Alternative Name: ArgRS/Arginyl tRNA synthetase ([RARS Products](#))

Background: Synonyms: There are 2 isoforms produced by alternative initiation. Alternative names: 2610011N19Rik, 2610037E21Rik, AL033339, Arginine tRNA ligase 1, cytoplasmic, Arginine tRNA ligase, Arginine-tRNA ligase, Arginyl tRNA synthetase 1, Arginyl tRNA synthetase cytoplasmic, Arginyl tRNA synthetase, cytoplasmic, Arginyl-tRNA synthetase, cytoplasmic, ArgRS, AW985894, DALRD 1, DALRD1, EC 6.1.1.19, MGC8641, MGC86730, RARS, SYRC_HUMAN, wu:fa96g09, zgc:56050, zgc:86730.

Background: The fidelity of protein synthesis requires efficient discrimination of amino acid substrates by aminoacyl-tRNA synthetases. ArgRS (Arginyl-tRNA synthetase), also known as RARS or DALRD1, belongs to the class-I aminoacyl-tRNA synthetase family that includes the related proteins, LeuRS, ValRS and IleRS. These proteins are large monomeric proteins and play a major role in catalyzing the aminoacylation of tRNA by their cognate amino acid. ArgRS localizes to the cytoplasm and exists as a monomer but can also associate with other tRNA synthetases and auxiliary proteins to form a multisubunit complex. In the presence of ATP, arginine (Arg) and tRNA, ArgRS joins Arg to tRNA(Arg) at its synthetic active site. Two cytoplasmic forms of ArgRS have been described in mammals, differing by the addition of a 73 amino acid sequence that is required for ArgRS assembly into the multisubunit complex.

Gene ID: 5917

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200
ICC 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months