

ARG43631 anti-AlaRS / Alanyl tRNA Synthetase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes AlaRS / Alanyl tRNA Synthetase
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	AlaRS / Alanyl tRNA Synthetase
Species	Human
Immunogen	Recombinant fragment corresponding to a.a. R729-N968 of Human Alanyl-tRNA Synthetase.
Conjugation	Un-conjugated
Alternate Names	Renal carcinoma antigen NY-REN-42; CMT2N; EIEE29; AlaRS; EC 6.1.1.7; Alanine--tRNA ligase, cytoplasmic; Alanyl-tRNA synthetase

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg / 1X10 ⁶ cells
	ICC/IF	1:50 - 1:100
	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	HeLa; K562; HepG2 cells	
Observed Size	110-120 kDa	

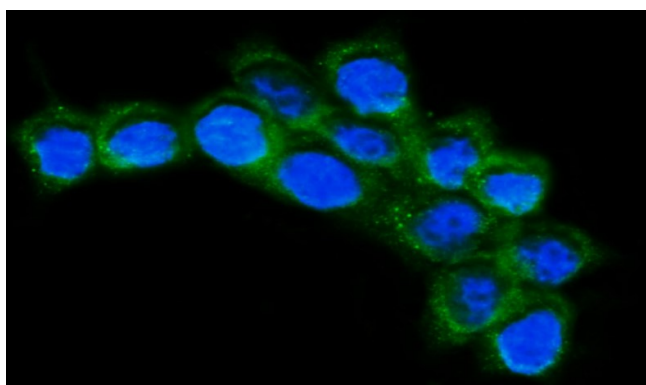
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
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 or below. 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.

Bioinformation

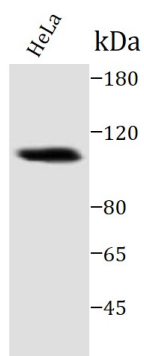
Gene Symbol	AARS
Gene Full Name	alanyl-tRNA synthetase
Background	The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity with the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific amino acids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure. [provided by RefSeq, Jul 2008]
Function	Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). Also edits incorrectly charged tRNA(Ala) via its editing domain. [UniProt]
Calculated Mw	107 kDa
PTM	ISGylated. [UniProt]
Cellular Localization	Cytoplasm [UniProt]

Images



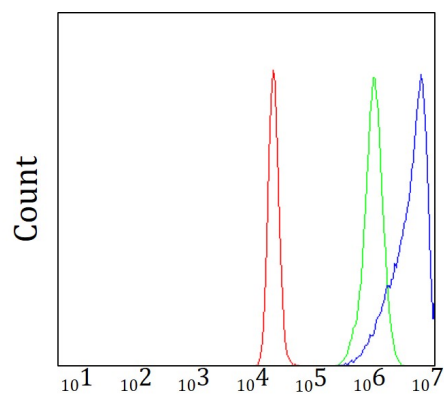
ARG43631 anti-AlaRS / Alanyl tRNA Synthetase antibody ICC/IF image

Immunofluorescence: MCF-7 cells were stained with ARG43631 anti-AlaRS / Alanyl tRNA Synthetase antibody at 1:100 dilution, 30 minutes at 37°C.



ARG43631 anti-AlaRS / Alanyl tRNA Synthetase antibody WB image

Western blot: HeLa cell lysates stained with ARG43631 anti-AlaRS / Alanyl tRNA Synthetase antibody, at 1:1000 dilution.



ARG43631 anti-AlaRS / Alanyl tRNA Synthetase antibody FACS image

Flow Cytometry: K562 cells were stained ARG43631 anti-AlaRS / Alanyl tRNA Synthetase antibody in 1x PBS/1% BSA for 30 min at RT.