ARG44436
anti-IARS / Isoleucyl tRNA synthetase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IARS / Isoleucyl tRNA synthetase
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IARS / Isoleucyl tRNA synthetase
Species	Human
Immunogen	Human IARS / Isoleucyl tRNA synthetase recombinant protein
Conjugation	Un-conjugated
Alternate Names	IARS1; Isoleucyl-TRNA Synthetase 1; ILRS; IARS; Isoleucine TRNA Ligase 1, Cytoplasmic; Isoleucine--TRNA Ligase, Cytoplasmic; Isoleucyl-TRNA Synthetase

Application Instructions

Application table

Application	Dilution
FACS	1-3 µg/1x10^6 cells
IHC-P	2-5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

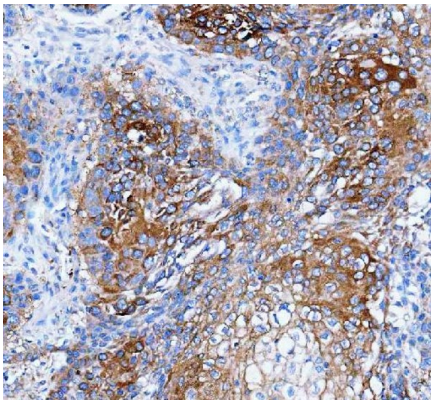
Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For 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.

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

Bioinformation

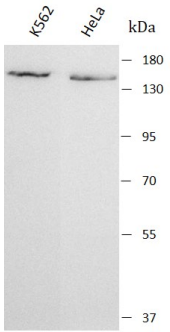
Gene Symbol	IARS1
Gene Full Name	Isoleucyl-TRNA Synthetase1
Background	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAS, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Isoleucine-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family and has been identified as a target of autoantibodies in the autoimmune disease polymyositis/dermatomyositis. Alternatively spliced transcript variants have been found.
Function	Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA.
Calculated Mw	144 kDa
PTM	Acetylation, Phosphoprotein
Cellular Localization	Cytoplasm

Images



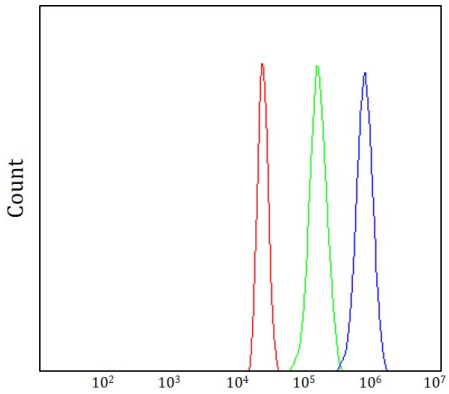
ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody IHC-P image

Immunohistochemistry: Human esophageal squamous carcinoma stained with ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody at 2 µg/mL dilution.



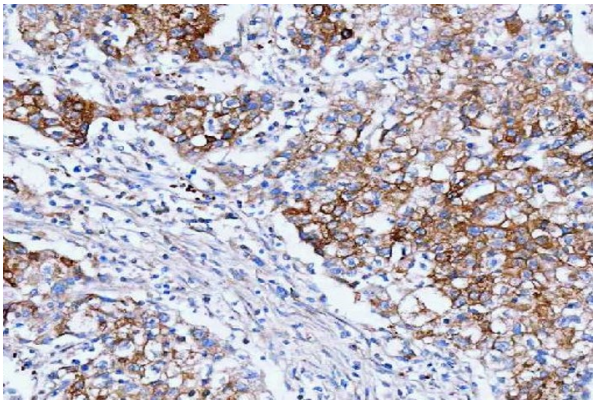
ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody WB image

Western blot: K562 and HeLa stained with ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody at 0.5 µg/mL dilution.



ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody FACS image

Flow Cytometry: HepG2 stained with ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody at 1 µg/10^6 cells dilution.



ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody IHC-P image

Immunohistochemistry: Human lung cancer stained with ARG44436 anti-IARS / Isoleucyl tRNA synthetase antibody at 2 µg/mL dilution.