ARG10984
anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [M6-P2E5] recognizes AlaRS / Alanyl tRNA Synthetase
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	M6-P2E5
Isotype	IgG1, kappa
Target Name	AlaRS / Alanyl tRNA Synthetase
Species	Human
Immunogen	Synthetic peptide around aa. 956-965 of Human Alanyl-tRNA Synthetase. (TSFAQLRLGD)
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
ELISA	Assay-dependent
IHC-P	Assay-dependent
WB	Assay-dependent

Application Note: IHC-P: Antigen Retrieval: Microwave 10 - 20 min at 800 - 950W in 10 mM Sodium citrate buffer / Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: WB: HeLa cell lysates; IHC: Human breast cancer tissue.

Properties

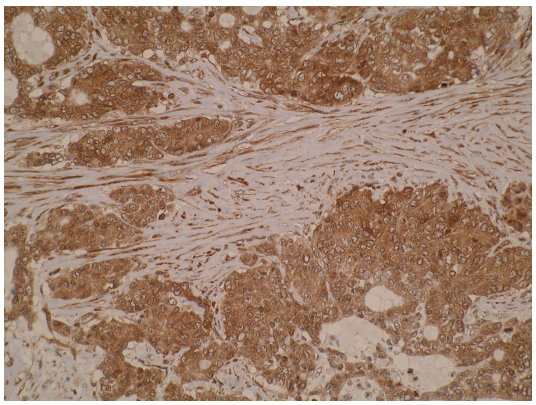
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers 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

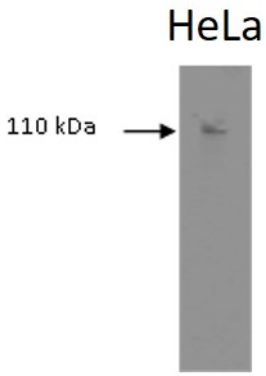
Gene Symbol	AARS
Gene Full Name	alanyl-tRNA synthetase
Background	The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity witht the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific aminoacids 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]

Images



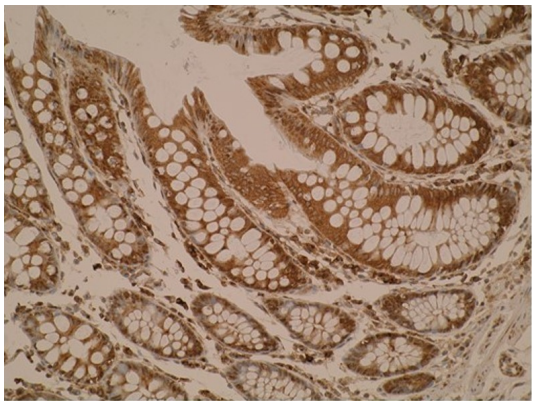
ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human colorectal cancer tissue stained with ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5] showing strong cytoplasmic staining.



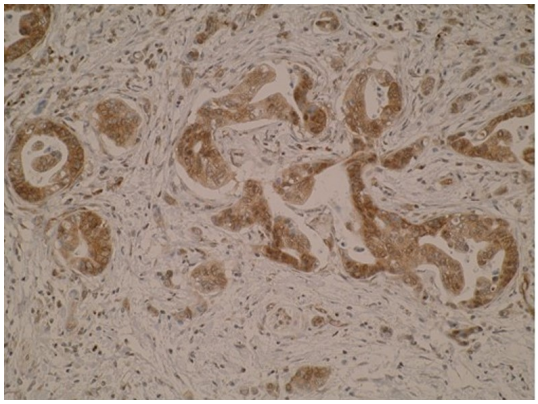
ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5] WB image

Western blot: HeLa cell lysate stained with ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5].



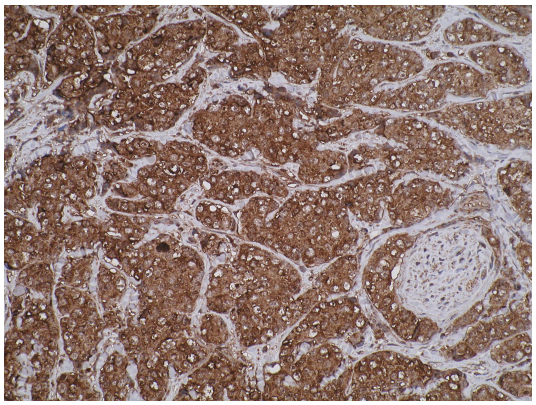
ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5] IHC-P image

Immunohistochemistry: Normal colon mucosa stained with ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5].



ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5] IHC-P image

Immunohistochemistry: Primary colorectal tumour stained with ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5].



ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded breast carcinoma stained with ARG10984 anti-AlaRS / Alanyl tRNA Synthetase antibody [M6-P2E5]. Antigen Retrieval: Microwave 10 min at 950W in 10 mM Sodium citrate buffer (pH 6.0).