



LysRS Monoclonal Antibody

Catalog No	BYab-17462
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;ELISA
Gene Name	KARS
Protein Name	Lysyl-tRNA synthetase
Immunogen	Purified recombinant fragment of LysRS(aa90-174) expressed in E. Coli.
Specificity	LysRS Monoclonal Antibody detects endogenous levels of LysRS protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KARS; KIAA0070; Lysine--tRNA ligase; Lysyl-tRNA synthetase; LysRS
Observed Band	
Cell Pathway	[Isoform Cytoplasmic]: Cytoplasm, cytosol . Cytoplasm . Nucleus . Cell membrane ; Peripheral membrane protein . Secreted . Secretion is induced by TNF-alpha (PubMed:15851690). Cytosolic in quiescent mast cells. Translocates into the nucleus in response to mast cell activation by immunoglobulin E (PubMed:23159739). .; [Isoform Mitochondrial]: Mitochondrion .
Tissue Specificity	Bone marrow,Brain,Cerebellum,Hepatoma,Placenta,
Function	catalytic activity:ATP + L-lysine + tRNA(Lys) = AMP + diphosphate + L-lysyl-tRNA(Lys).,similarity:Belongs to the class-II aminoacyl-tRNA synthetase family.,subunit:Homodimer (By similarity); also part of a multisubunit complex that groups tRNA ligases for Arg, Asp, Glu, Gln, Ile, Leu, Lys, Met and Pro.,
Background	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Alternatively spliced transcript variants encoding

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different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

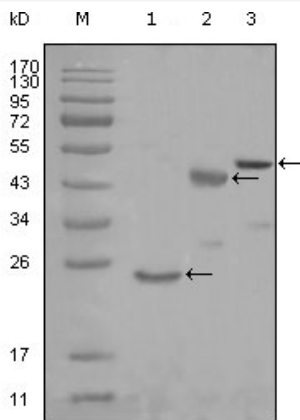
matters needing attention

Avoid repeated freezing and thawing!

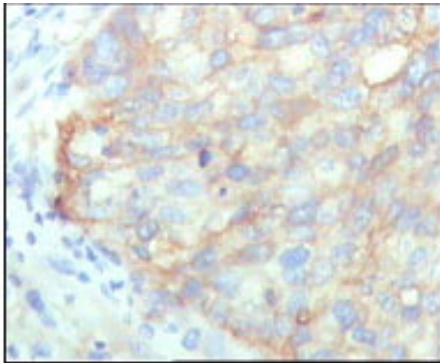
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using LysRS Monoclonal Antibody against truncated Trx-LysRS recombinant protein (1), truncated MBP-LysRS (aa90-174) and full length LysRS (aa1-188) transfected CHO-K1 cell lysate (3).



Immunohistochemistry analysis of paraffin-embedded human cervical carcinoma, showing cytoplasmic localization with DAB staining using LysRS Monoclonal Antibody.