



TyrRS Monoclonal Antibody

Catalog No	YP-mAb-10608
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	YARS
Immunogen	The antiserum was produced against synthesized peptide derived from the C-terminal region of human YARS. AA range:451-500
Specificity	TyrRS Monoclonal Antibody detects endogenous levels of TyrRS
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Tyrosine--tRNA ligase;mitochondrial;Tyrosine tRNA ligase;mt TyrRS;EC:6.1.1.1; CGI-04;TyrRS;YARS;cytoplasmic (EC 6.1.1.1) (Tyrosyl-tRNA synthetase) (TyrRS); cytoplasmic (EC 6.1.1.1) (Tyrosyl-tRNA synthetase) (TyrRS)
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Cytoplasm .
Tissue Specificity	B-cell lymphoma,Bone,Lung,Platelet,
Function	catalytic activity:ATP + L-tyrosine + tRNA(Tyr) = AMP + diphosphate + L-tyrosyl-tRNA(Tyr).,disease:Defects in YARS are the cause of Charcot-Marie-Tooth disease dominant intermediate type C (CMTDIC) [MIM:608323]. CMTDIC is a form of Charcot-Marie-Tooth disease characterized by clinical and pathologic features intermediate between demyelinating and axonal peripheral neuropathies, and motor median nerve conduction velocities ranging from 25 to 45 m/sec.,function:Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr).,similarity:Belongs to the class-I aminoacyl-tRNA synthetase family.,similarity:Contains 1 tRNA-binding domain.,



subunit:Homodimer.,

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. Tyrosyl-tRNA synthetase belongs to the class I tRNA synthetase family. Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas the released C-terminal fragment is an EMAP II-like cytokine. [provided by RefSeq, Jul 2008],

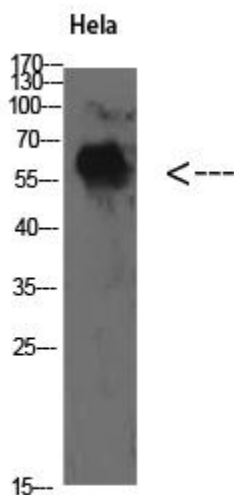
matters needing attention

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 of various cells using TyrRS Monoclonal Antibody