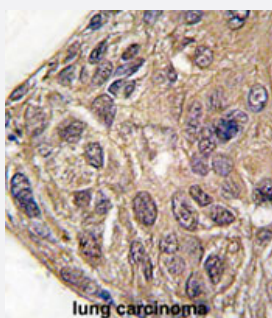


YARS polyclonal antibody

Catalog # PAB2978 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human lung carcinoma reacted with YARS polyclonal antibody (Cat # PAB2978), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of YARS.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human YARS.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — YARS

Entrez GeneID	8565
Protein Accession#	NP_003671;P54577
Gene Name	YARS
Gene Alias	CMTDIC, TYRRS, YRS, YTS
Gene Description	tyrosyl-tRNA synthetase
Omim ID	603623 608323
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000004027 tyrosine tRNA ligase 1, cytoplasmic

Publication Reference

- [Gain-of-function mutational activation of human tRNA synthetase procytokine.](#)

Yang XL, Kapoor M, Otero FJ, Slike BM, Tsuruta H, Frausto R, Bates A, Ewalt KL, Cheresh DA, Schimmel P. Chemistry & Biology 2007 Dec; 14(12):1323.

Application: WB-Tr, Human, HUVECs

- [Disrupted function and axonal distribution of mutant tyrosyl-tRNA synthetase in dominant intermediate Charcot-Marie-Tooth neuropathy.](#)

Jordanova A, Irobi J, Thomas FP, Van Dijck P, Meerschaert K, Dewil M, Dierick I, Jacobs A, De Vriendt E, Guergueltcheva V, Rao CV, Tourné I, Gondim FA, D'Hooghe M, Van Gerwen V, Callaerts P, Van Den Bosch L, Timmermans JP, Robberecht W, Gettemans J, Thevelein JM, De Jonghe P, Kremensky I, Timmerman V.

Nature Genetics 2006 Feb; 38(2):197.

Application: IF, Mouse, N2a cells

- [Toward the full set of human mitochondrial aminoacyl-tRNA synthetases: characterization of AspRS and TyrRS.](#)

Bonnefond L, Fender A, Rudinger-Thirion J, Giege R, Florentz C, Sissler M.

Biochemistry 2005 Mar; 44(12):4805.

Pathway

- [Aminoacyl-tRNA biosynthesis](#)