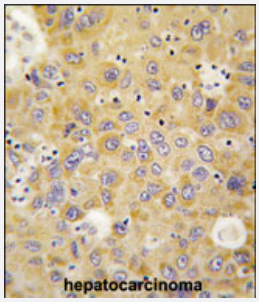
AARS polyclonal antibody

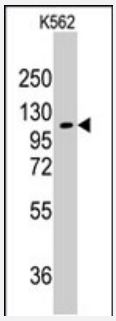
Catalog # PAB2957 Size 400 uL

Applications



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

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma reacted with AARS polyclonal antibody (Cat # PAB2957) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western Blot (Cell lysate)

Western blot analysis of AARS polyclonal antibody (Cat # PAB2957) in K-562 cell line lysates (35 ug/lane).AARS (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AARS.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human AARS.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

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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 shoul d be handled by trained staff only.

Applications

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

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- Western Blot (Cell lysate)

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Gene Info — AARS

Entrez GeneID	16
Protein Accession#	NP_001596;P49588
Gene Name	AARS
Gene Alias	-
Gene Description	alanyl-tRNA synthetase
Omim ID	601065
Gene Ontology	Hyperlink
Gene Summary	The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II e nzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflec ted 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 a minoacids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a cataly tic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second d omain which interacts with the rest of the tRNA structure. [provided by RefSeq

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Other Designations	alanine tRNA ligase 1, cytoplasmic

Publication Reference

- Global, in vivo, and site-specific phosphorylation dynamics in signaling networks.

  Olsen JV, Blagoev B, Gnad F, Macek B, Kumar C, Mortensen P, Mann M.

  Cell 2006 Nov; 127(3):635.

- Human alanyl-tRNA synthetase: conservation in evolution of catalytic core and microhelix recognition.

  Shiba K, Ripmaster T, Suzuki N, Nichols R, Plotz P, Noda T, Schimmel P.

  Biochemistry 1995 Aug; 34(33):10340.

  Application: WB-Ce, WB-Tr, Human, Mammalian cells

- Wide cross-species aminoacyl-tRNA synthetase replacement in vivo: yeast cytoplasmic alanine enzyme replaced by human polymyositis serum antigen.

  Ripmaster TL, Shiba K, Schimmel P.

  PNAS 1995 May; 92(11):4932.

  Application: WB-Ce, WB-Re, Yeast, Yeast cells

Pathway

- Aminoacyl-tRNA biosynthesis

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