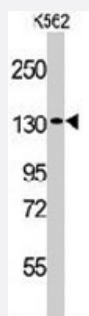


VARS polyclonal antibody

Catalog # PAB3528

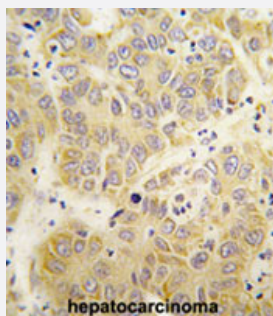
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of VARS polyclonal antibody (Cat # PAB3528) in K-562 cell line lysates (35 ug/lane). VARS (arrow) was detected using the purified polyclonal antibody (1:1000 dilution).



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

Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with VARS polyclonal antibody (Cat # PAB3528), 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 VARS.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human VARS.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50) Western Blot (1:1000) 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 (Cell lysate)

Western blot analysis of VARS polyclonal antibody (Cat # PAB3528) in K-562 cell line lysates (35 ug/lane). VARS (arrow) was detected using the purified polyclonal antibody (1:1000 dilution).

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Gene Info — VARS

Entrez GeneID	7407
Protein Accession#	NP_006286;P26640
Gene Name	VARS
Gene Alias	G7A, VARS1, VARS2
Gene Description	valyl-tRNA synthetase
Omim ID	192150
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. The protein encoded by this gene belongs to class-I aminoacyl-tRNA synthetase family and is located in the class III region of the major histocompatibility complex. [provided by RefSeq]
Other Designations	valine tRNA ligase 1, cytoplasmic valyl-tRNA synthetase 2

Publication Reference

- [Three-dimensional reconstruction of the valyl-tRNA synthetase/elongation factor-1H complex and localization of the delta subunit.](#)
Jiang S, Wolfe CL, Warrington JA, Norcum MT.
FEBS Letters 2005 Nov; 579(27):6049.
- [Toward the full set of human mitochondrial aminoacyl-tRNA synthetases: characterization of AspRS and TyrRS.](#)
Bonnetfond L, Fender A, Rudinger-Thirion J, Giege R, Florentz C, Sissler M.
Biochemistry 2005 Mar; 44(12):4805.
- [Analysis of the gene-dense major histocompatibility complex class III region and its comparison to mouse.](#)
Xie T, Rowen L, Aguado B, Ahearn ME, Madan A, Qin S, Campbell RD, Hood L.
Genome Research 2003 Dec; 13(12):2621.

Pathway

- [Aminoacyl-tRNA biosynthesis](#)
- [Valine](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)