

Datasheet for ABIN2782517  
**anti-VARS antibody (Middle Region)**

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## Overview

Quantity:	100 µL
Target:	VARS
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Horse, Dog, Guinea Pig, Zebrafish (Danio rerio), Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VARS antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human VARS
Sequence:	VFDEFVDMDF GTGAVKITPA HDQNDYEVGQ RHGLEAISIM DSRGALINVP
Predicted Reactivity:	Cow: 100%, Dog: 93%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 86%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against VARS. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	VARS
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## Target Details

Alternative Name:	VARS ( <a href="#">VARS Products</a> )
Background:	<p>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. VARS belongs to class-I aminoacyl-tRNA synthetase family and is located in the class III region of the major histocompatibility complex. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: G7A, VARS2, VARS1</p> <p>Protein Interaction Partner: CALCOCO2, SUMO2, SART3, STAU1, UBC, EED, CCT4, KNTC1, AIMP1, CCT3, QARS, EEF1G, EEF1D, EEF1B2, FBXO6, YWHAQ, MAPK11, VCAM1, ITGA4, FN1, LARS, CAD, UBD, SHC1, CUL3, CDK2, CHD7, CACNA1A, ATG101, OTUD5, DMWD, EEF1A1, EEF1A2, TRAF6, TFE3, HLA-B, EPB41,</p> <p>Protein Size: 1264</p>
Molecular Weight:	140 kDa
Gene ID:	7407
NCBI Accession:	<a href="#">NM_006295</a> , <a href="#">NP_006286</a>
UniProt:	<a href="#">P26640</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1264 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific

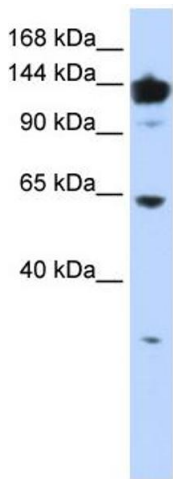
## Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

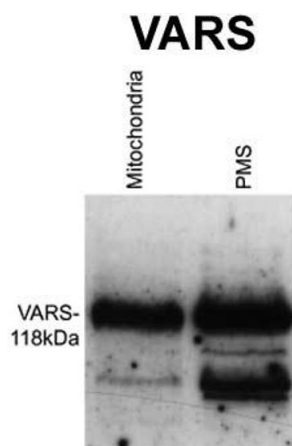
Product cited in:	Suzuki, Fujisawa, Ando, Niino, Ohsawa, Shimokata, Ohta: "Alcohol dehydrogenase 2 variant is associated with cerebral infarction and lacunae." in: <b>Neurology</b> , Vol. 63, Issue 9, pp. 1711-3, (2004) ( <a href="#">PubMed</a> ).
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## Images



**Western Blotting**

**Image 1.** WB Suggested Anti-VARS Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 721\_B cell lysate VARS is strongly supported by BioGPS gene expression data to be expressed in Human 721\_B cells



See Immunoblot 2 Data and Customer Feedback tab for more information.

## Western Blotting

### Image 2. WB Suggested Anti-VARS Antibody

**Titration:** 1 ug/ml

**Positive Control:** Wildtype *Neurospora crassa*

## Immunohistochemistry

**Image 3.** VARS antibody - middle region Formalin Fixed Paraffin Embedded Tissue: Human Lung Tissue Observed Staining: Cytoplasm of pneumocytes Primary Antibody Concentration: 1:100 Other Working Concentrations: 1/600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec

