

**VARs Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7843a****Specification**

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**VARs Antibody (N-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">P26640</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	140476
Antigen Region	251-279

**VARs Antibody (N-term) - Additional Information****Gene ID** 7407**Other Names**

Valine--tRNA ligase, Protein G7a, Valyl-tRNA synthetase, ValRS, VARs, G7A, VARs2

**Target/Specificity**

This VARs antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 251-279 amino acids from the N-terminal region of human VARs.

**Dilution**

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

VARs Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**VARs Antibody (N-term) - Protein Information****Name** VARs1 ([HGNC:12651](#))**Synonyms** G7A, VARs, VARs2

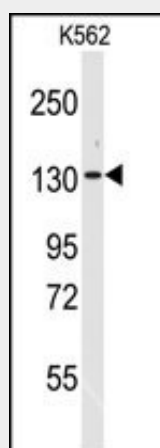
**Function** Catalyzes the attachment of valine to tRNA(Val).

### **VARs Antibody (N-term) - Protocols**

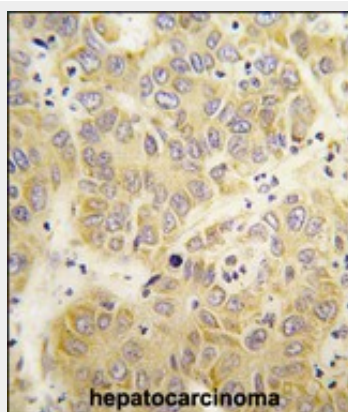
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **VARs Antibody (N-term) - Images**



Western blot analysis of anti-VARS Antibody (N-term) (Cat.#AP7843a) in K562 cell line lysates (35ug/lane). VARS (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with the VARS antibody (N-term) (Cat.#AP7843a), 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.

### **VARs Antibody (N-term) - 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. This protein belongs to the class-I aminoacyl-tRNA synthetase family and is located in the class III region of the major histocompatibility complex.

**VARS Antibody (N-term) - References**

Jiang,S., FEBS Lett. 579 (27), 6049-6054 (2005)  
Bonfond,L., Biochemistry 44 (12), 4805-4816 (2005)  
Xie,T., Genome Res. 13 (12), 2621-2636 (2003)