

## Product datasheet

# Anti-Viral Protein U antibody ab81532

## 2 References

### Overview

<b>Product name</b>	Anti-Viral Protein U antibody
<b>Description</b>	Rabbit polyclonal to Viral Protein U
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human immunodeficiency virus
<b>Immunogen</b>	Synthetic peptide corresponding to Human immunodeficiency virus Viral Protein U aa 50-150 conjugated to keyhole limpet haemocyanin. Database link: <a href="#">Q6L8A2</a>

 [Run BLAST with](#)

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### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide  Proprietary antibody stabilization buffer.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab81532 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/50000.
WB		1/1000. Positive for Cells transfected with Vpu
ICC/IF		1/250.
IP		1/250.

## Target

### Relevance

Retroviruses have several characteristic structural and catalytic proteins. One such auxiliary protein is a viral protein U (Vpu) which enhances virion release from human cells and is also involved in the degradation of CD4, the cellular surface receptor of HIV-1. The Vpu has no homolog in less pathogenic HIV-2 virus. Vpu is an 81 amino acid class I membrane integral protein that is unique to human and simian immunodeficiency virus isolated from Chimpanzee and a few other monkey species. The 16kDa protein Vpu protein consists of an N-terminal hydrophobic membrane anchor of 27 amino acids and a charged C-terminal hydrophilic domain of 54 amino acids that extends to the cytoplasm. The cytoplasmic domain has a conserved dual serine phosphorylation site (S52 GXX and S56 motif) that is phosphorylated by casein kinase II. Vpu is involved in viral replication and degradation of its cellular receptor CD4 and enhancement of viral particle release from macrophages and primary lymphocytes.

### Cellular localization

Membrane; Single-pass type I membrane protein.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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