

## Product datasheet

# Anti-MVP antibody ab97311

★★★★★ 1 Abreviews 2 References 7 Images

### Overview

<b>Product name</b>	Anti-MVP antibody
<b>Description</b>	Rabbit polyclonal to MVP
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Cow, Cat
<b>Immunogen</b>	Recombinant fragment corresponding to Human MVP aa 158-350. Sequence:

```

EVV EIIQATIIRQ NQALRLRARK ECWDRDGKER
VTGEEWLVTT VGAYLPAVFE EVLDLVDAVILTEKTALHLR
ARRNFRDFRG VSRRTGEEWL VTVQDTEAHV
PDVHEEVLGV VPITTLGPHN YCVILDPVGP
DGKNQLGQKR VVKGEKSFFL QPGEQLEQGI
QDVVYLSEQQ GLLLRALQPL EEGEDEEKVS
    
```

Database link: [Q14764](#)

[Run BLAST with](#)

[Run BLAST with](#)

### General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab97311** in the following tested applications.

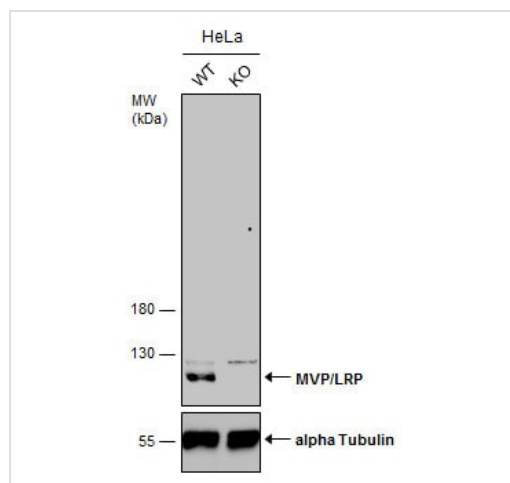
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.
WB	★★★★☆	1/500 - 1/3000. Predicted molecular weight: 99 kDa.
IHC-P		1/100 - 1/1000.

## Target

<b>Function</b>	Required for normal vault structure. Vaults are multi-subunit structures that may act as scaffolds for proteins involved in signal transduction. Vaults may also play a role in nucleo-cytoplasmic transport. Down-regulates INFG-mediated STAT1 signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.
<b>Tissue specificity</b>	Present in most normal tissues. Higher expression observed in epithelial cells with secretory and excretory functions, as well as in cells chronically exposed to xenobiotics, such as bronchial cells and cells lining the intestine. Overexpressed in many multidrug-resistant cancer cells.
<b>Sequence similarities</b>	Contains 9 MVP (vault) repeats.
<b>Domain</b>	MVP 3 mediates interaction with PTEN. MVP 4 mediates interaction with PARP4.
<b>Post-translational modifications</b>	Phosphorylated on Tyr residues after EGF stimulation. Dephosphorylated by PTPN11.
<b>Cellular localization</b>	Cytoplasm. Nucleus > nuclear pore complex. 5% found in the nuclear pore complex. Translocates from the nucleus to the cytoplasm upon EGF treatment.

## Images



Western blot - Anti-MVP antibody (ab97311)

**All lanes :** Anti-MVP antibody (ab97311) at 1/500 dilution

**Lane 1 :** WT HeLa cell extract

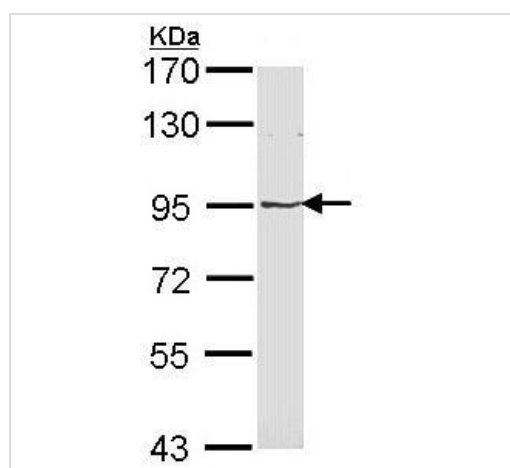
**Lane 2 :** MVP Knockout HeLa cell extracts

Lysates/proteins at 30 µg per lane.

### Secondary

**All lanes :** HRP-conjugated anti-rabbit IgG

**Predicted band size:** 99 kDa

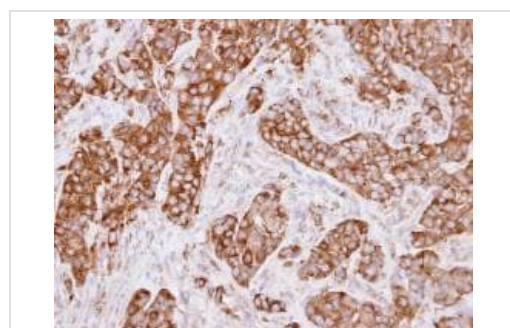


Western blot - Anti-MVP antibody (ab97311)

Anti-MVP antibody (ab97311) at 1/1000 dilution + MOLT-4 whole cell lysate at 30 µg

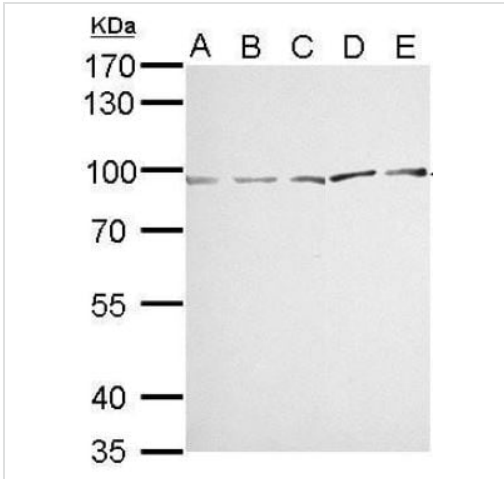
**Predicted band size:** 99 kDa

7.5% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody (ab97311)

Immunohistochemical analysis of paraffin-embedded A549 xenograft using ab97311 at 1/500 dilution.



Western blot - Anti-MVP antibody (ab97311)

**All lanes** : Anti-MVP antibody (ab97311) at 1/1000 dilution

**Lane 1** : Neuro2A whole cell lysate

**Lane 2** : GL261 whole cell lysate

**Lane 3** : C8D30 whole cell lysate

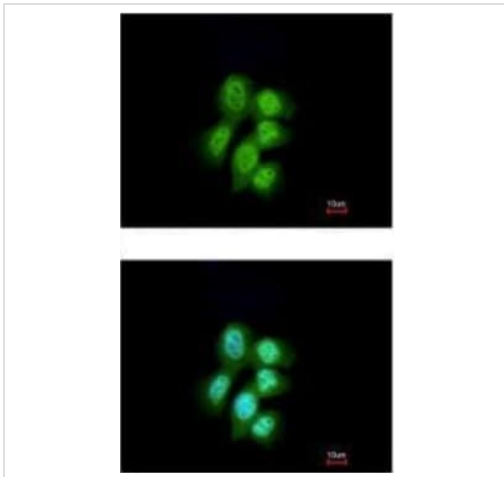
**Lane 4** : BCL-1 whole cell lysate

**Lane 5** : Raw264.7 whole cell lysate

Lysates/proteins at 30 µg per lane.

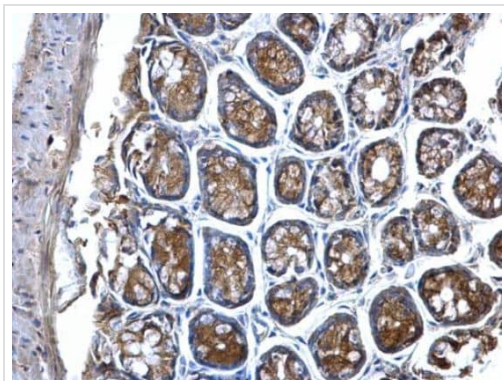
**Predicted band size:** 99 kDa

7.5% SDS-PAGE



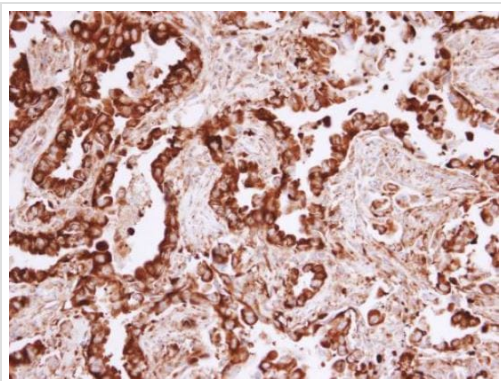
Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody (ab97311)

A431 cells stained for MVP/LRP (green) using ab97311 at 1/200 dilution in ICC/IF.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody (ab97311)

Paraffin embedded mouse colon tissue stained for MVP/LRP using ab97311 at 1/500 dilution in immunohistochemical analysis.



Paraffin embedded human breast carcinoma tissue stained for MVP/LRP using ab97311 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody (ab97311)

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

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