

# **PLVAP Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54949

## **Specification**

# **PLVAP Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, ICC

Primary Accession <u>Q9BX97</u>

Reactivity Rat, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 50 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human PLVAP

Epitope Specificity 301-400/442

**Purity** 

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell membrane. Membrane > caveola.

Cytoplasm > perinuclear region.

Membrane-associated protein of caveolae.

Found in fenestral and stomatal

diaphragms in fenestrated endothelia and transendothelial channels. Also colocalized

with CAV1 in perinuclear region.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

PLVAP (Plasmalemma Vesicle Associated Protein) is a Protein Coding gene. Diseases associated with PLVAP include Breast Benign Neoplasm and Thoracic Benign Neoplasm. GO annotations related to this gene include protein homodimerization activity.

# **PLVAP Polyclonal Antibody - Additional Information**

## **Gene ID 83483**

## **Other Names**

Plasmalemma vesicle-associated protein, Fenestrated endothelial-linked structure protein, Plasmalemma vesicle protein 1, PV-1, PLVAP, FELS, PV1

# **Target/Specificity**

Expressed in lung, kidney, heart, aorta, placenta, muscle, pituitary gland, adrenals, mammary gland, bladder, lymph node, bone marrow, trachea, digestive tract, liver and tumor-associated endothelium.



### **Dilution**

<span class ="dilution\_WB">WB $\sim$ 1:1000/span><br/>dr \><span class

="dilution\_IHC-P">IHC-P $\sim$ N/A</span><br\><span class

="dilution IHC-F">IHC-F~~N/A</span><br \><span class

="dilution\_IF">IF $\sim$ 1:50 $\sim$ 200</span><br\><span class ="dilution\_ICC">ICC $\sim$ N/A</span>

#### **Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

# **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

# **PLVAP Polyclonal Antibody - Protein Information**

Name PLVAP

Synonyms FELS, PV1

#### **Function**

Endothelial cell-specific membrane protein involved in the formation of the diaphragms that bridge endothelial fenestrae. It is also required for the formation of stomata of caveolae and transendothelial channels. Functions in microvascular permeability, endothelial fenestrae contributing to the passage of water and solutes and regulating transcellular versus paracellular flow in different organs. Plays a specific role in embryonic development.

## **Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:Q9WV78}; Single-pass type II membrane protein. Membrane, caveola {ECO:0000250|UniProtKB:Q9WV78}; Single-pass type II membrane protein. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q9WV78}. Note=Membrane-associated protein of caveolae. Found in fenestral and stomatal diaphragms in fenestrated endothelia and transendothelial channels. Also colocalized with CAV1 in perinuclear region. {ECO:0000250|UniProtKB:Q9WV78}

### **Tissue Location**

Expressed in lung, kidney, heart, aorta, placenta, muscle, pituitary gland, adrenals, mammary gland, bladder, lymph node, bone marrow, trachea, digestive tract, liver and tumor-associated endothelium.

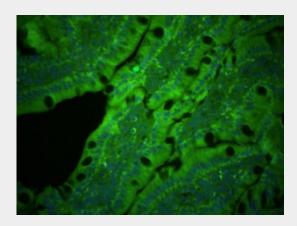
# **PLVAP Polyclonal Antibody - Protocols**

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

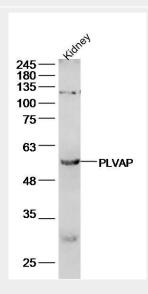
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **PLVAP Polyclonal Antibody - Images**





Paraformaldehyde-fixed, paraffin embedded (Rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PLVAP) Polyclonal Antibody, Unconjugated (bs-12737R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.



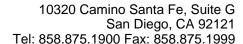
Sample:

kidney(mouse) Lysate at 40 ug

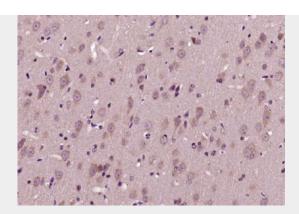
Primary: Anti- PLVAP(bs-12737R) at 1/2000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50kD Observed band size: 55kD







Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PLVAP) Polyclonal Antibody, Unconjugated (bs-12737R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.