

PLVAP Antibody



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Applications: W, IP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #Q91VC4	Entrez-Gene Id 84094
Product Usage Information		ApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:100				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		PLVAP Antibody recognizes endogenous levels of total PLVAP protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala394 of mouse PLVAP protein. Antibodies are purified by peptide affinity chromatography.				
Background		PLVAP (plasmalemma vesicle-associated protein) is an endothelial cell (EC)-specific type II membrane protein. It forms diaphragms that bridge the opening of caveolae, fenestrae, and trans-endothelial channels and plays a role in regulating vascular permeability. PLVAP expression is restricted to a subset of ECs in the normal microvasculature, but it is not expressed in the ECs of large vessels, with the exception of the endocardial lining of the heart chambers (1). While PLVAP is expressed in ECs in the brain and retina during embryogenesis and postnatal development, it is not expressed in mature endothelium that forms blood-brain barrier (BBB) and blood-retinal barrier (BRB). However, under pathological conditions associated with barrier disruption such as brain ischemia, cancer, and diabetic retinopathy, PLVAP expression is induced in endothelium of BBB and BRB (2). PLVAP was previously considered as an EC marker of the vascular system, its expression is now reported in lymphatic ECs (LECs) in lymph nodes and it may play a role in regulating the parenchymal entry of lymphocytes and soluble antigens (3,4).				
Background References		1. Guo, L. et al. (2016) <i>Exp Ther Med</i> 12, 1639-44. 2. Bosma, E.K. et al. (2018) <i>Fluids Barriers CNS</i> 15, 24. 3. Rantakari, P. et al. (2015) <i>Nat Immunol</i> 16, 386-96. 4. Ulvmar, M.H. and Mäkinen, T. (2016) <i>Cardiovasc Res</i> 111, 310-21.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		M: Mouse				
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