

**MONOCLONAL ANTIBODY TO
HUMAN PLASMALEMMA VESICLE ASSOCIATED PROTEIN
(PLVAP/PV1/PAL-E/FELS)
clone 174/2**



Catalog nr	HM2214 (lot number and expiry date are indicated on the label)
Description	The monoclonal antibody 174/2 reacts with human plasmalemma vesicle associated protein (PLVAP), also known as PV1, PAL-E and FELS. PLVAP is a 60 kDa type II transmembrane glycoprotein which tends to form homodimers. PLVAP is widely expressed in the vasculature of normal tissues. The vascular staining pattern of PLVAP is quite unique among the endothelial cell antigens, since expression of other antigens (like ICAM-1, P-selectin, E-selectin or VCAM-1) is not limited to vascular endothelial cells. PLVAP expression in the vascular endothelial cells of the CNS is lost in association with formation of an intact blood-brain barrier. However, in the endothelium of human brain tumors expression of PLVAP is specifically up-regulated, making it a suitable antiangiogenic target for brain tumor therapy and cerebral edema. Furthermore, PLVAP is expressed in the vasculature of most other human tumors and as such useful as marker for tumor angiogenesis.
Species	Mouse IgG ₁
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide.
Application	The monoclonal antibody 174/2 can be used for flow cytometry and immunohistology on frozen sections. Furthermore, the monoclonal antibody 174/2 is useful for immunofluorescence and Western blot.
Use	For immunohistology, flow cytometry, immunofluorescence and Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Niemelä, H et al; Molecular identification of PAL-E, a widely used endothelial-cell marker. <i>Blood</i> 2005, <i>106</i>: 34052. Carson-Walter, E et al; Plasmalemmal vesicle associated protein-1 is a novel marker implicated in brain tumor angiogenesis. <i>Clin Canc Res</i> 2005, <i>11</i>: 7643
Also available	HM2213 Monoclonal antibody against Human VAP-1, clone 174-5 HM2215 Monoclonal antibody against Human CD73, clone 4G4 HM4001 Monoclonal antibody against Human E-selectin (CD62E), clone ENA1 HM2039 Monoclonal antibody against Human PECAM-1 (CD31), clone BV8 HP9041 Polyclonal antibody against Human JAM-A