

PV1 (PAL-E): sc-52355

BACKGROUND

Plasmalemma vesicle protein 1, also referred to as PV1 or PLVAP, is an endothelial-specific integral membrane glycoprotein that resides in the stomatal diaphragms of caveolae, transendothelial channels, vesiculo-vacuolar organelles and the diaphragms of endothelial fenestrae. PV1 forms homodimers in each stomatal and fenestral diaphragm and functions as a key component in their biogenesis. PV1 is a useful tool in the identification of endothelial structures in normal tissues and pathological conditions, such as thrombosis and arteriosclerosis. PV1 can also be helpful in studies of the vascularisation of tumors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLVAP (human) mapping to 19p13.11.

SOURCE

PV1 (PAL-E) is a mouse monoclonal antibody raised against isolated melanoma cells of human origin.

PRODUCT

Each vial contains 500 µl culture supernatant containing IgG_{2a} with < 0.1% sodium azide.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

PV1 (PAL-E) is recommended for detection of PV1 of human origin by immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200).

PV1 (PAL-E) is also recommended for detection of PV1 in additional species, including porcine, rabbit and caprine.

Suitable for use as control antibody for PV1 siRNA (h): sc-61421, PV1 shRNA Plasmid (h): sc-61421-SH and PV1 shRNA (h) Lentiviral Particles: sc-61421-V.

Molecular Weight of PV1: 50 kDa

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.