

Product datasheet for **SM2146R**

PECAM1 Mouse Monoclonal Antibody [Clone ID: LCI-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LCI-4
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl or 100 µl of lysed whole blood.
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Porcine CD31/human IgGfC fusion protein
Specificity:	<p>This antibody recognizes CD31, a 140kD cell surface protein also called PECAM-1. Clone LCI-4 has been shown to stimulate tyrosine phosphorylation of CD31 on endothelial cells.</p> <p>Clone LCI-4 is cross reactive with human CD31 and binds to the 5th extracellular Ig domain, proximal to the transmembrane region as demonstrated by human CD31 domain deletion mutant protein binding studies (Nasu et al.1999).</p> <p>Mouse anti Pig CD31, clone LCI-4 immunoprecipitates a protein of ~130kDa from lysates of porcine aortic endothelial cells and is strongly expressed at cell junctions (Nasu et al. 1999).</p>
Formulation:	<p>PBS containing 0.09% Sodium Azide, 1% BSA, 5% Sucrose</p> <p>Label: PE</p> <p>State: Lyophilized purified IgG fraction</p> <p>Label: R. Phycoerythrin (RPE)</p>
Reconstitution Method:	Restore with 1 ml distilled water.
Conjugation:	PE
Storage:	<p>Store the antibody undiluted at 2-8°C.</p> <p>DO NOT FREEZE!</p> <p>This product is photosensitive and should be protected from light.</p>
Stability:	Shelf life: one year from despatch.
Database Link:	Q95242



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Background:

Cell adhesion molecules are a family of closely related cell surface glycoproteins involved in cell-cell interactions during growth and are thought to play an important role in embryogenesis and development. Neuronal cell adhesion molecule (NCAM) expression is observed in a variety of human tumors including neuroblastomas, rhabdomyosarcomas, Wilms' tumors, Ewing's sarcomas and some primitive myeloid malignancies. The intracellular adhesion molecule-1 (ICAM-1), also referred to as CD54, is an integral membrane protein of the immunoglobulin superfamily and recognizes the B2 α 1 and B2 α M Integrins. PECAM-1 (platelet/endothelial cell adhesion molecule-1), also referred to as CD31, is a glycoprotein expressed on the cell surfaces of monocytes, neutrophils, platelets and a subpopulation of T cells. VCAM-1 (vascular cell adhesion molecule-1) was first identified as an adhesion molecule induced on human endothelial cells by inflammatory cytokines such as IL-1, tumor necrosis factor (TNF) and lipopolysaccharide (LPS). The KALIG gene encodes a nerve cell adhesion molecule (NCAM)-like protein and is deleted in 66% of patients with Kallmann's syndrome, anosmia with secondary hypogonadism.

Synonyms:

PECAM-1, EndoCAM, GPIIA'