

Monoclonal Antibody to CD31 / PECAM1 - FITC

Alternate names:	EndoCAM, GPIIA', PECAM-1, Platelet endothelial cell adhesion molecule
Catalog No.:	SM2146F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	<p>CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. It is also weakly expressed on many peripheral lymphoid cells and platelets.</p> <p>CD31 has been used to measure angiogenesis in association with tumor recurrence. Other studies have also indicated that CD31 and CD34 can be used as markers for myeloid progenitor cells and recognize different subsets of myeloid leukemia infiltrates (granular sarcomas).</p>
Uniprot ID:	P16284
NCBI:	9606
Host / Isotype:	Mouse / IgG1
Clone:	LCI-4
Immunogen:	Porcine CD31/human IgGFc fusion protein
Format:	<p>State: Liquid purified IgG</p> <p>Purification: Affinity chromatography on Protein G</p> <p>Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin</p> <p>Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: Neat - 1/10; Use 10µl of the suggested working dilution to label 100µl of lysed whole blood or 10e6 cells in 100µl.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognises CD31, a 140kD cell surface protein also called PECAM-1, expressed by various cell types, but particularly by endothelial cells. Clone LCI-4 has been shown to stimulate tyrosine phosphorylation of CD31 on endothelial cells.</p> <p>Species: Pig, Human. Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.</p> <p>This product is photosensitive and should be protected from light.</p> <p>Shelf life: one year from despatch.</p>

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

General References: 1. Evans, P.C. et al. (2001) Signaling through CD31 protects endothelial cells from apoptosis. *Transplantation*. 71 (3): 343 - 4.

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