

## Product datasheet for **SM464F**

### CD31 / PECAM1 Mouse Monoclonal Antibody [Clone ID: CO.3E1D4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	CO.3E1D4
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of neat CD31 antibody to label 1 x 10 <sup>6</sup> cells in 100 µl.
Reactivity:	Bovine, Sheep, Goat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Ovine leucocytes. Spleen cells from immunised BALB/c mice were fused with cells of the SP2-0/Ag14 mouse myeloma cell line.
Specificity:	This antibody is specific for Ovine CD31, also known as PECAM-1.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">P51866</a>



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**Background:**

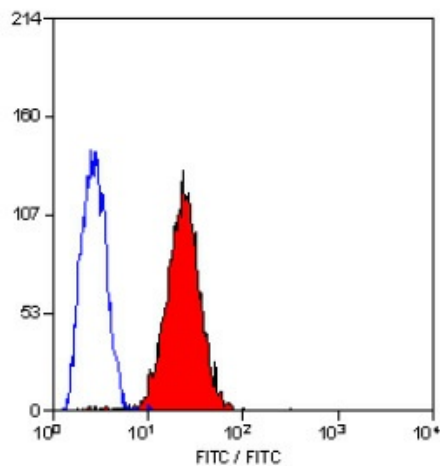
CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. It is also weakly expressed on many peripheral lymphoid cells and platelets.

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).

Ovine CD31 is predominantly expressed by peripheral blood platelets and a small percentage of lymphocytes. CD31 is also highly expressed by ovine endothelial cells.

**Synonyms:**

PECAM-1, EndoCAM, GPIIA'

**Product images:**

Staining of sheep peripheral blood platelets with MOUSE ANTI OVINE CD31 antibody (SM464F).