

Datasheet for ABIN6934735
anti-CD31 antibody (PE)



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1 Image

Overview

Quantity:	0.5 mL
Target:	CD31 (PECAM1)
Reactivity:	Human, Rabbit, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD31 antibody is conjugated to PE
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Test (T)

Product Details

Immunogen:	Recombinant full-length human CD31 protein
Clone:	C31-7
Isotype:	IgG1 kappa
Specificity:	CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of the hematopoietic system and is primarily used to identify and concentrate these cells for experimental studies as well as for bone marrow transplantation. Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. CD31 MAb reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining. The level of CD31 expression can help to determine the degree of tumor angiogenesis, and a high level of CD31 expression may imply a rapidly growing tumor and potentially a predictor of tumor recurrence.

Product Details

Purification: Purified by Protein A/G

Target Details

Target: CD31 (PECAM1)

Alternative Name: PECAM1 ([PECAM1 Products](#))

Molecular Weight: ~100kDa (endothelium) and ~130kDa (platelets)¹

Gene ID: 5175

UniProt: [P16284](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: Positive Control: Jurkat, CCRF-CEM or K-562 cells. Tonsil, Angiosarcoma.
Known Application: Flow Cytometry (5 µL per test per one million cells or 5 µL per 100 µL of whole blood), Immunofluorescence (1:50-1:100 for 30 minutes at RT), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 100 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA and 0.05 % azide.

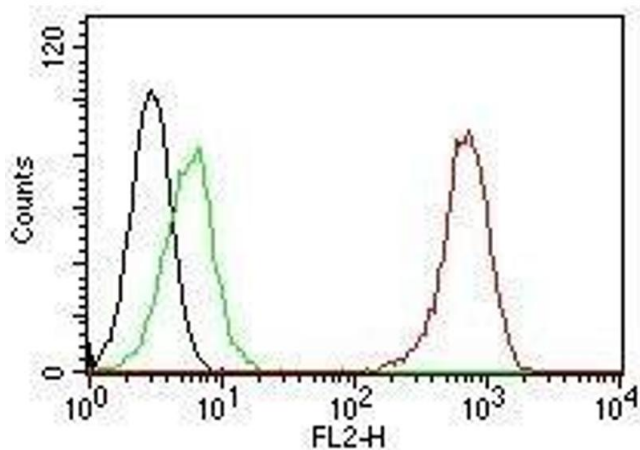
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



Flow Cytometry

Image 1. Flow Cytometric analysis of human CD31 on Jurkat cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled CD31 Monoclonal Antibody (C31.7).