

Datasheet for ABIN6940282

**anti-CD31 antibody**

## 7 Images

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## Overview

Quantity:	100 µg
Target:	CD31 (PECAM1)
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD31 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant full-length human CD31 protein
Clone:	C31-3
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)'

Gene ID: 5175

UniProt: [P16284](#)

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

## Application Details

Application Notes: Positive Control: Jurkat cells. Tonsil or Angiosarcoma.  
Known Application: Flow Cytometry (1-2 µg/million cells), Western Blot (1-2 µg/mL), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

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

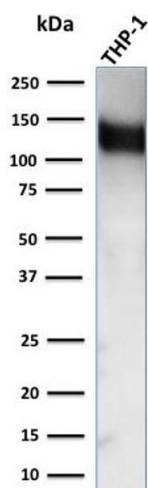
Preservative: Sodium azide

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

Storage: 4 °C,-80 °C

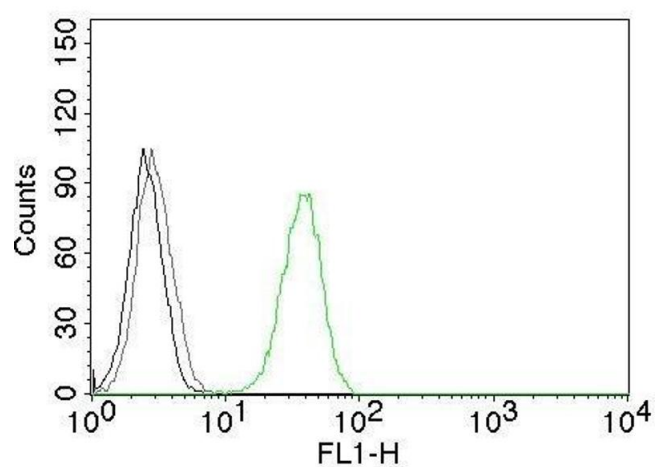
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



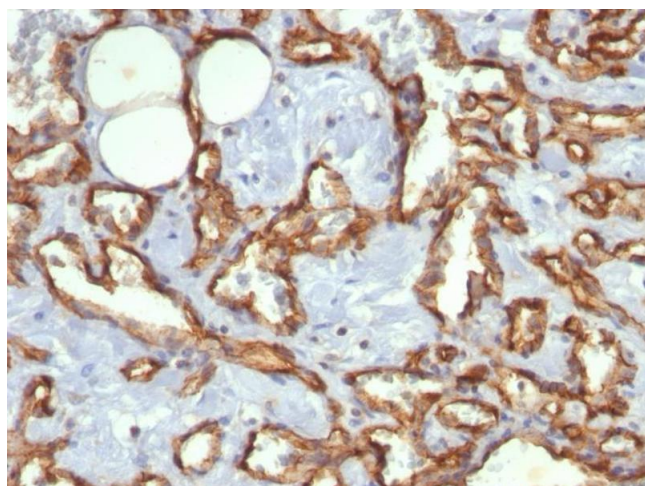
### Western Blotting

**Image 1.** Western Blot Analysis of human THP-1 cell lysate using CD31 Mouse Monoclonal Antibody (C31.3).



### Flow Cytometry

**Image 2.** Flow Cytometric analysis of human CD31 on Jurkat cells. Black: cells alone; grey: Isotype Control; Green: AF488-labeled CD31 Mouse Monoclonal Antibody (C31.3).



### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD31 Mouse Monoclonal Antibody (C31.3).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6940282.