

Datasheet for ABIN3043601  
**anti-CD31 antibody (AA 28-382)**

5 Images

38 Publications

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## Overview

Quantity:	100 µg
Target:	CD31 (PECAM1)
Binding Specificity:	AA 28-382
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD31 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Platelet endothelial cell adhesion molecule(PECAM1) detection. Tested with WB, IHC-P, FCM in Human.
Immunogen:	E.coli-derived human CD31 recombinant protein (Position: Q28-G382). Human CD31 shares 65% and 68% amino acid (aa) sequences identity with mouse and rat CD31, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Platelet endothelial cell adhesion molecule(PECAM1) detection. Tested with WB, IHC-P, FCM in Human.</p> <p>Gene Name: platelet/endothelial cell adhesion molecule 1</p> <p>Protein Name: Platelet endothelial cell adhesion molecule</p>

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: CD31 (PECAM1)

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

Background: CD31 also known as Platelet endothelial cell adhesion molecule (PECAM-1), is a protein that in human is encoded by the PECAM1 gene. Encoded protein is a member of the immunoglobulin superfamily, CD31 is mapped to 17q23.3. CD31 is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. It is demonstrated that CD31 expression on human PBSCs may positively affect both neutrophil and platelet engraftment. Meanwhile, CD31 is involved in leukocyte migration and angiogenesis, which are key components of venous thrombus resolution.

Synonyms: Adhesion molecule antibody|CD31 antibody|CD31 antigen antibody|CD31 EndoCAM antibody|Endocam antibody|FLJ34100 antibody|FLJ58394 antibody|GPIIA antibody|GPIIA' antibody|PECA1 antibody|PECA1\_HUMAN antibody|Pecam 1 antibody|PECAM 1 CD31 EndoCAM antibody|PECAM antibody|PECAM-1 antibody|Pecam1 antibody|Platelet endothelial cell adhesion molecule antibody|Platelet/endothelial cell adhesion molecule 1 antibody|Platelet/endothelial cell adhesion molecule antibody

Gene ID: 5175

UniProt: [P16284](#)

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

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for CD31 is approximately 0.25 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Flow Cytometry: Concentration: 1-3 µg/1x10<sup>6</sup> cells, Tested Species: Human  
Notes: Tested Species: Species with positive results. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

## Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium 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.

Handling Advice: Avoid repeated freezing and thawing.

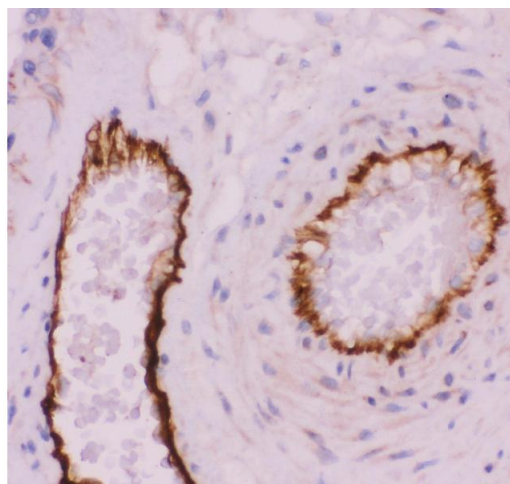
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

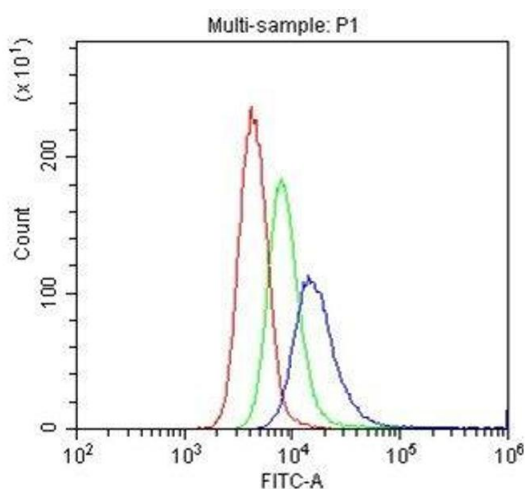
Product cited in: Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adeno-associated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: **Molecular vision**, Vol. 16, pp. 2384-94, (2011) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



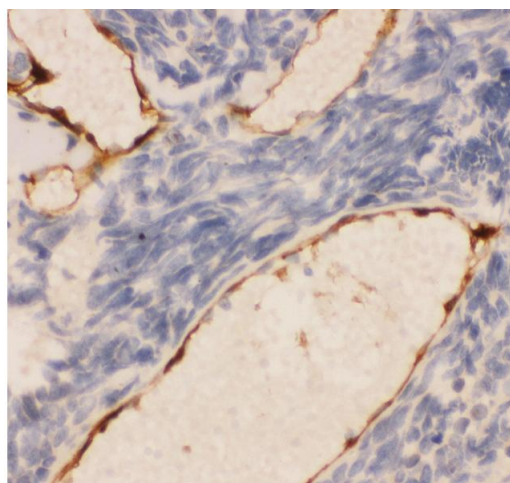
#### Immunohistochemistry

**Image 1.** Anti-CD31 Picoband antibody, IHC(P): Human Placenta Tissue



#### Flow Cytometry

**Image 2.** Flow Cytometry analysis of U937 cells using anti-CD31 antibody. Overlay histogram showing U937 cells stained with (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD31 Antibody ( $1\mu\text{g}/1 \times 10^6$  cells) for 30 min at  $20^\circ\text{C}$ . DyLight<sup>®</sup>488 conjugated goat anti-rabbit IgG (BA1127,  $5-10\mu\text{g}/1 \times 10^6$  cells) was used as secondary antibody for 30 minutes at  $20^\circ\text{C}$ . Isotype control antibody (Green line) was rabbit IgG ( $1\mu\text{g}/1 \times 10^6$ ) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



#### Immunohistochemistry

**Image 3.** Anti-CD31 Picoband antibody, IHC(P): Human Lung Cancer Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043601.