

# CD31/PECAM1 Mouse mAb

Catalog No.: A27114 **2 Publications**

## Basic Information

### Observed MW

130kDa

### Calculated MW

83kDa

### Category

Primary antibody

### Applications

WB,IF-P,IHC-P,ELISA

### Cross-Reactivity

Human, Mouse

### CloneNo number

AMC50033

## Background

The protein encoded by this gene 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. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation.

## Recommended Dilutions

**WB** 1:1000 - 1:2000

**IF-P** 1:200 - 1:800

**IHC-P** 1:200 - 1:800

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

5175

### Swiss Prot

P16284

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

CD31; PECA1; GPIIA'; PECAM-1; endoCAM; CD31/EndoCAM

## Contact

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## Product Information

### Source

Mouse

### Isotype

IgG1. Rabbit-derived mouse chimeric antibody

### Purification

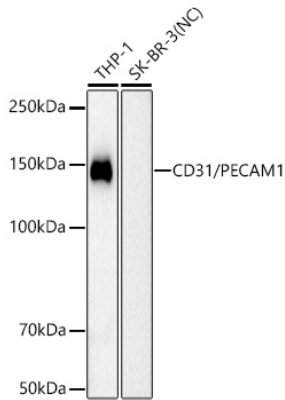
Affinity purification

### Storage

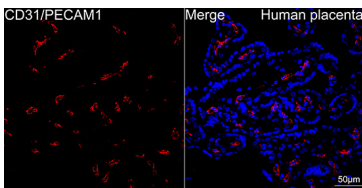
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

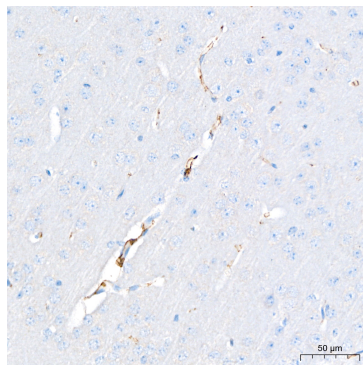
## Validation Data



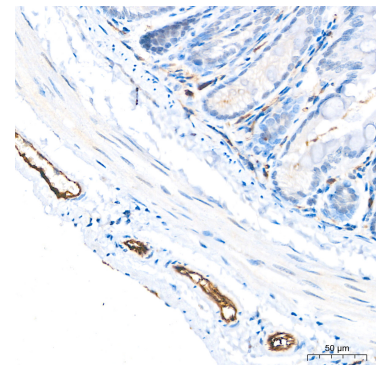
Western blot analysis of various lysates using CD31/PECAM1 Mouse mAb (A27114) at 1:1000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Negative control (NC): SK-BR-3  
Exposure time: 90s.



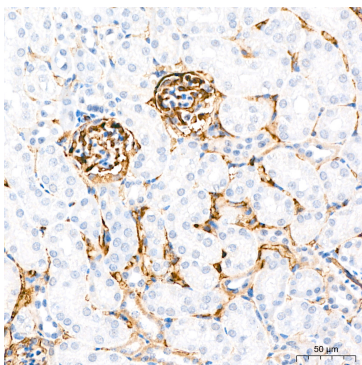
Confocal imaging of paraffin-embedded Human placenta tissue using CD31/PECAM1 Mouse mAb (A27114, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using CD31/PECAM1 Mouse mAb (A27114) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using CD31/PECAM1 Mouse mAb (A27114) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using CD31/PECAM1 Mouse mAb (A27114) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.