



# CD31 Monoclonal Antibody

Catalog No	BYmab-16944
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	PECAM1
Protein Name	Platelet endothelial cell adhesion molecule
Immunogen	The antiserum was produced against synthesized peptide derived from human PECAM-1. AA range:686-735
Specificity	CD31 Monoclonal Antibody detects endogenous levels of CD31 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. IF 1:100-300 Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PECAM1; Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA'; PECA1; CD antigen CD31
Observed Band	85-130kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Cell surface expression on neutrophils is down-regulated upon fMLP or CXCL8/IL8-mediated stimulation.

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### Tissue Specificity

Expressed on platelets and leukocytes and is primarily concentrated at the borders between endothelial cells (PubMed:18388311, PubMed:21464369).



cells (HUVECs), Jurkat T-cell leukemia, human erythroleuk

**Function**

function:This protein is a cell adhesion molecule expressed on platelets and at endothelial cell intercellular junctions.,online information:CD31 entry,online information:PECAM-1,online information:The Singapore human mutation and

**Background**

The protein encoded by this gene is found on the surface of platelets,

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For

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Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti mouse IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.

Li, Yaming, et al. "Huaier extract suppresses breast cancer via regulating tumor-associated macrophages." Scientific reports6 (2016): 20049.

Wang, Lijuan, et al. "Establishment and evaluation of the VX2 orthotopic lung cancer mouse model: a ultra-minimal invasive percutaneous puncture inoculation method." The Korean Journal of Physiology & Pharmacology 22.3 (2018): 291-300.

Western blot analysis of lysates from 1) HepG2, 2) K562,3) L929,4) MOUSE-BRAIN cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Actin  $\beta$  Monoclonal Antibody(5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.

Western Blot analysis of various cells using CD31 Monoclonal Antibody diluted at 1:1000



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