



**ABCLONAL BIOTECHNOLOGY, INC.**

## CD31 Rabbit pab Antibody

### Anti CD31 antibody

<b>Catalog Number:</b>	A0378	<b>Quantity:</b>	100ul
<b>Lot Number:</b>	A00009	<b>Species:</b>	Rabbit
<b>Gene ID:</b>	5175	<b>Swiss Prot:</b>	P16284

### DESCRIPTION

<b>Description</b>	Rabbit polyclonal to Human CD31
<b>Species</b>	Rabbit
<b>Applications</b>	WB IHC IP FC
<b>Reactivity</b>	H
<b>Immunogen</b>	A synthetic peptide of human CD31
<b>Other Name</b>	PECAM1 ; CD31 ; FLJ34100 ;FLJ58394 ;PECAM-1;Platelet endothelial cell adhesion molecule ; EndoCAM ; GPIIA';PECA1;

### PROPERTIES

<b>Form</b>	Liquid
<b>Storage instructions</b>	Upon delivery aliquot and store at -20°C or -80°C.
<b>Storage buffer</b>	PBS with 0.1% Sodium Azide, 50% Glycerol,
<b>Purity</b>	Affinity purification
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### APPLICATION

<b>WB</b>	WB :1/1000-2000
<b>IHC</b>	IHC:1/250-500
<b>IP</b>	IP:1/20-50
<b>FC</b>	FC:1/50-100



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### BACKGROUND

CD31 (Platelet Endothelial Cell Adhesion Molecule-1: PECAM-1), a member of the Ig superfamily of cell adhesion molecules, is expressed by circulating platelets, monocytes, neutrophils, some T cells and endothelial cells, and modulates cell adhesion, endothelial cell migration and angiogenesis (1). CD31 is phosphorylated on Tyr686 at the cytoplasmic carboxy-terminal tail upon various stimuli (e.g. mechanical stress or oxidative stress), presumably by Src family members (2). The tyrosine phosphorylation mediates associations with a number of SH2 domain containing binding partners such as PI3-kinase, SHIP, PLC $\gamma$  and SHP-2. Thus, CD31 serves as a scaffold for various signaling molecules (3).

1. [Newman, P.J. \(1997\) \*J. Clin. Invest.\* 99, 3-8.](#)
2. [Cao, M. Y. et al. \(1998\) \*J. Biol. Chem.\* 273, 15765-15772.](#)
3. [Ilan, N. and Madri, J.A. \(2003\) \*Curr. Opin. Cell Biol.\* 15, 515-524.](#)