

CD31(PECAM1) Antibody

Catalog No: #21481



Package Size: #21481-1 50ul #21481-2 100ul #21481-4 25ul

Overview

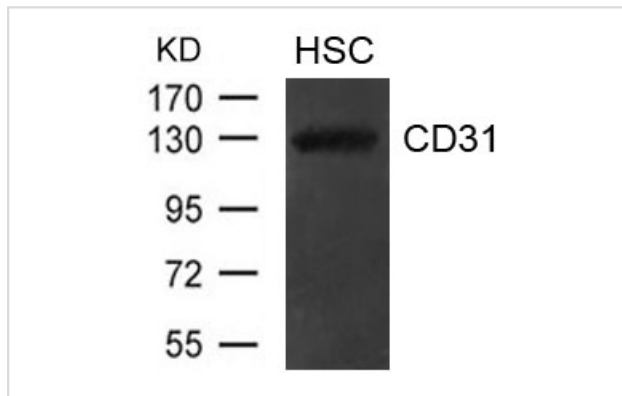
Product Name	CD31(PECAM1) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB
Species Reactivity	Hu
Immunogen Type	Peptide-KLH
Target Name	CD31(PECAM1)
Alternative Names	CD31; PECAM-1; FLJ34100; FLJ58394; PECAM1

Application Details

Predicted MW: 130kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extract from hematopoietic stem cells using CD31(PECAM1) Antibody #21481

Descriptions

Immunogen	Peptide sequence around aa.730~734(R-T-E-G-S) derived from Human CD31(PECAM1).
Specificity	The antibody detects endogenous level of total CD31 protein.
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.
Accession NO.	Swiss-Prot: P16284NCBI Protein: NP_000433.4

Related Information

Induces susceptibility to atherosclerosis By similarity. Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions. Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes. Prevents phagocyte ingestion of closely apposed viable cells by transmitting 'detachment' signals, and changes function on apoptosis, promoting tethering of dying cells to phagocytes (the encounter of a viable cell with a phagocyte via the homophilic interaction of PECAM1 on both cell surfaces leads to the viable cell's active repulsion from the phagocyte. During apoptosis, the inside-out signaling of PECAM1 is somehow disabled so that the apoptotic cell does not actively reject the phagocyte anymore. The lack of this repulsion signal together with the interaction of the eat-me signals and their respective receptors causes the attachment of the apoptotic cell to the phagocyte, thus triggering the process of engulfment). Isoform Delta15 is unable to protect against apoptosis. Modulates BDKRB2 activation. Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in human umbilical cord vein cells (HUVEC).

Brown S., Heinisch I., Ross E., Shaw K., Buckley C.D., Savill J. *Nature* 418:200-203(2002)

Bergom C., Paddock C., Gao C., Holyst T., *Cell Sci.* 121:1235-1242(2008)

Dasgupta B., Dufour E., Mamdouh Z., Muller W.A. *J. Immunol.* 182:5041-5051(2009)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.