

For Research Use Only

CD31 Recombinant monoclonal antibody

Catalog Number: 80773-4-RR



Basic Information

Catalog Number:	80773-4-RR	GenBank Accession Number:	NM_000442.5	Purification Method:	Protein A purification
Source:	Rabbit	GenID (NCBI):	5175	CloneNo.:	251101C9
Isotype:	IgG	ENSEMBL Gene ID:	ENSG00000261371	Recommended Dilutions:	WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:400-1:1600
Immunogen Catalog Number:	EG4658	UNIPROT ID:	P16284-1		
		Full Name:	platelet/endothelial cell adhesion molecule		
		Calculated MW:	83 kDa		
		Observed MW:	130-150 kDa		

Applications

Tested Applications:	WB, IHC, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	human	WB:	Jurkat cells, HL-60 cells, THP-1 cells
		IHC:	human tonsillitis tissue, human placenta tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF/ICC:	HUVEC cells,

Background Information

Platelet endothelial cell adhesion molecule-1 (PECAM-1, CD31) is a member of the immunoglobulin gene superfamily of cell adhesion molecules. CD31 is a transmembrane glycoprotein that is highly expressed on the surface of the endothelium, making up a large portion of its intracellular junctions. PECAM-1 is also present on the surface of hematopoietic cells and immune cells including platelets, monocytes, neutrophils, natural killer cells, megakaryocytes and some types of T-cell (PMID: 9011572). As well as its role in cell-cell adhesion, PECAM-1 functions as a signaling receptor, and is involved in important physiological events such as nitric oxide production, regulation of T-cell immunity and tolerance, leukocyte transendothelial migration and inflammation and angiogenesis (PMID: 21183735; 20978210; 17872453; 20634489).

Storage

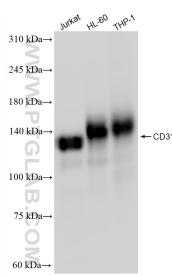
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80773-4-RR (CD31 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

