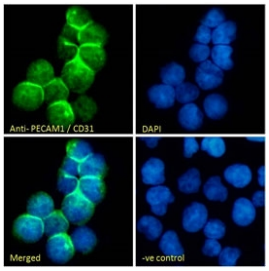
CD31 Antibody / PECAM-1 (R36497)

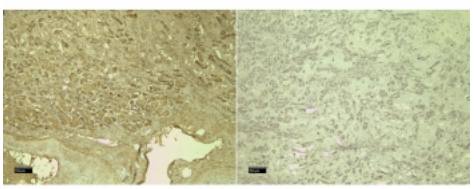
Catalog No.	Formulation	Size
R36497-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
UniProt	P16284
Applications	Immunofluorescence : 10ug/ml Immunohistochemistry (FFPE) : 4-6ug/ml ELISA (peptide) LOD : 1:128000
Limitations	This CD31 antibody is available for research use only.



Immunofluorescent staining of fixed and permeabilized human Jurkat cells with CD31 antibody (green) at 10ug/ml and DAPI nuclear stain (blue).



IHC staining of FFPE human kidney tissue with CD31 antibody at 4ug/ml (left) and without primary antibody (right). Required HIER: steamed antigen retrieval with pH6 citrate buffer; HRP-staining.

Description

CD31, also known as platelet endothelial cell adhesion molecule-1 (PECAM-1), is a transmembrane glycoprotein that is found on the surface of various cell types, including platelets, endothelial cells, and leukocytes. One of the key roles of CD31 is its involvement in leukocyte trafficking and adhesion. Studies have shown that CD31 plays a crucial role in regulating the migration of immune cells to sites of inflammation or infection. By interacting with other proteins on the surface of immune cells, CD31 helps to mediate the adhesion and transmigration of these cells across the endothelium, allowing them to reach their target tissues and carry out their immune functions. CD31 has also been shown to regulate other important immune responses. For example, CD31 has been implicated in the modulation of T cell activation and proliferation. By interacting with other signaling molecules, CD31 can influence the signaling pathways that control T cell activation, ultimately shaping the immune response to pathogens or foreign antigens. Additionally, CD31 plays a role in the maintenance of vascular integrity. By promoting interactions between endothelial cells, CD31 helps to maintain the tight junctions that form the blood-brain barrier and other vascular structures. This function of CD31 is crucial for preventing the entry of pathogens and toxins into the bloodstream, protecting the body from potential harm.

Application Notes

Optimal dilution of the CD31 antibody should be determined by the researcher.

Immunogen

Amino acids TSESTKSELVTVTE were used as the immunogen for this CD31 antibody.

Storage

Aliquot and store the CD31 antibody at -20oC.