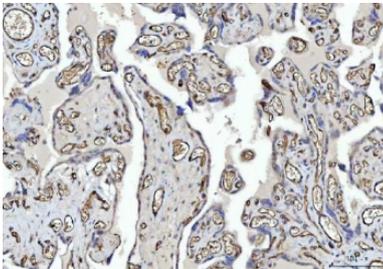


CD31 Antibody (R31520)

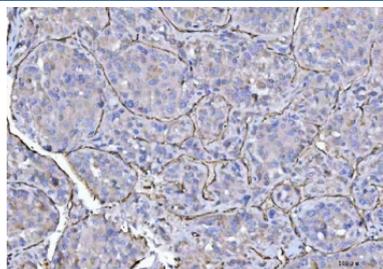
Catalog No.	Formulation	Size
R31520	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
Gene ID	5175
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This CD31 antibody is available for research use only.



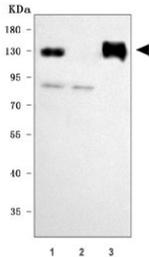
IHC staining of FFPE human placental tissue with CD31 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



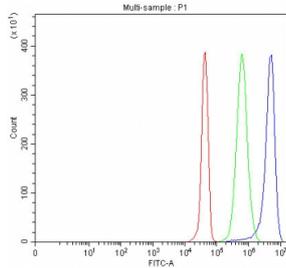
IHC staining of FFPE human hepatocellular carcinoma tissue with CD31 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) Jurkat and 2) placenta lysate with CD31 antibody. Expected molecular weight: 83~130 kDa depending on glycosylation level.



Western blot testing of human 1) Jurkat, 2) Raji and 3) ThP-1 cell lysate with CD31 antibody. Expected molecular weight: 83~130 kDa depending on glycosylation level.



Flow cytometry testing of fixed and permeabilized human Jurkat cells with CD31 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD31 antibody.

Description

CD31 also known as Platelet endothelial cell adhesion molecule (PECAM-1), is a protein that in human is encoded by the PECAM1 gene. Encoded protein is a member of the immunoglobulin superfamily, CD31 is mapped to 17q23.3. CD31 is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. It is demonstrated that CD31 expression on human PBSCs may positively affect both neutrophil and platelet engraftment. Additionally, CD31 is involved in leukocyte migration and angiogenesis, which are key components of venous thrombus resolution.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD31 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 28-382) was used as the immunogen for this CD31 antibody.

Storage

The lyophilized CD31 antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freezing and thawing.

