

For Research Use Only

# CD31 Polyclonal antibody

Catalog Number: 11265-1-AP

Featured Product

484 Publications



## Basic Information

Catalog Number:

11265-1-AP

Concentration:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1787

GenBank Accession Number:

BC022512

GeneID (NCBI):

5175

ENSEMBL Gene ID:

ENSG00000261371

UNIPROT ID:

P16284

Full Name:

platelet/endothelial cell adhesion molecule

Calculated MW:

83 kDa

Observed MW:

120-130 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:2000-1:8000

IF-P: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human

Cited Species:

human, pig, rabbit, canine, monkey, zebrafish, goat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : human peripheral blood platelets, HUVEC cells, Jurkat cells, THP-1 cells

IP : Jurkat cells,

IHC : human liver cancer tissue, human tonsillitis tissue, human placenta tissue, human renal cell carcinoma tissue, human hepatocirrhosis tissue, human kidney tissue, human gliomas tissue

IF-P : human endometrial cancer tissue, human tonsillitis tissue

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).

## Notable Publications

| Author         | Pubmed ID | Journal                       | Application |
|----------------|-----------|-------------------------------|-------------|
| Qingrong Zhang | 34655915  | Colloids Surf B Biointerfaces | IHC         |
| Zhou Yang      | 32993738  | J Exp Clin Cancer Res         | IHC         |
| Haoyu Guo      | 36201949  | Biomaterials                  | IF          |

## 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:

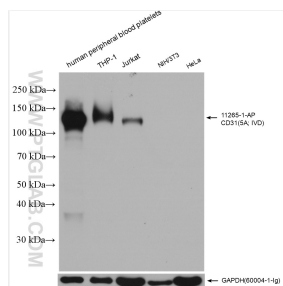
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

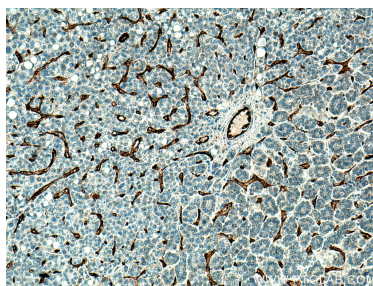
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

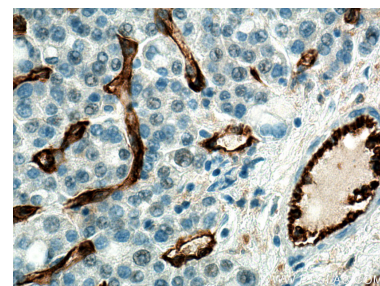
## Selected Validation Data



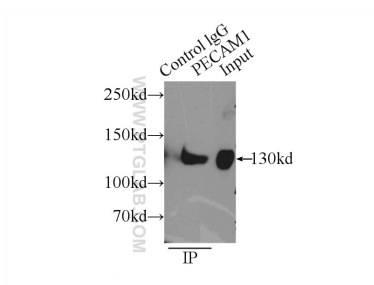
Various lysates were subjected to SDS PAGE followed by western blot with 11265-1-AP (CD31 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



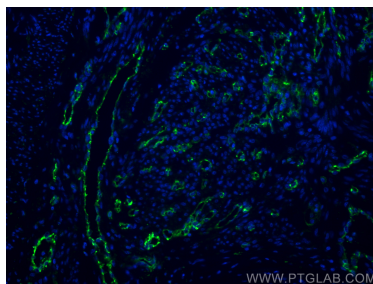
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11265-1-AP (CD31 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



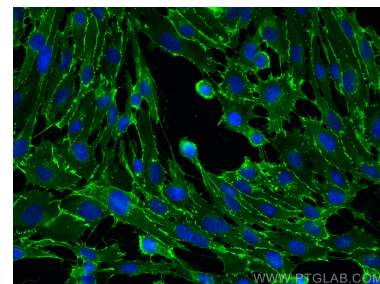
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11265-1-AP (CD31 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



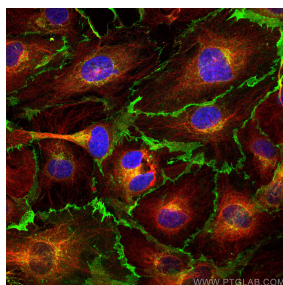
IP result of anti-CD31 (IP: 11265-1-AP, 5ug; Detection: 11265-1-AP 1:300) with Jurkat cells lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed human endometrial cancer tissue using CD31 antibody (11265-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using CD31 antibody (11265-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CD31 antibody (11265-1-AP) at dilution of 1:400 and Multi-Ab CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).