Product datasheet

Anti-CD31/PECAM1 Antibody

Catalog Number: *BA1346*

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Basic Information

Product Name	Anti-CD31/PECAM1 Antibody
Gene Name	PECAM1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB,IHC,IHC-F,IF
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat CD31(547-566aa HHEQTSKEQEGQYYCTAFNR).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	120-130KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section (IHC-F): 1:50-400 Immunofluorescence (IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

PECAM-1(Platelet endothelial cell adhesion molecule), also known as cluster of differentiation 31(CD31) is a protein that in human is encoded by the PECAM1 gene found on chromosome 17. PECAM1 is a member of the immunoglobulin(Ig) superfamily that is expressed on the surface of circulating platelets, monocytes, neutrophils, and particular T-cell subsets. Using a PCR-based analysis of somatic cell hybrids, Gumina et al.(1996) mapped PECAM1 to chromosome 17 in the region 17q23-qter. By fluorescence in situ hybridization, they assigned the PECAM1 locus specifically to 17q23. Several adhesion molecules expressed on platelets and endothelium also localized to 17q. Xie and Muller(1996) mapped the Pecam1 gene to mouse chromosome 6, region F3-G1, by fluorescence in situ hybridization. PECAM-1 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, and PECAM-1 plays a key role in removing aged neutrophils from the body.

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Reference

Anti-CD31/PECAM1 Antibody被引用在6文献中。

Selected Validation Data

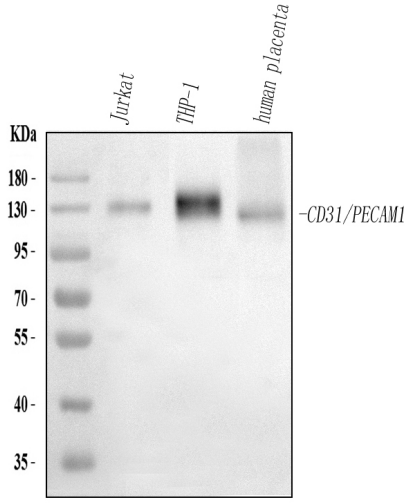

Figure 1. Western blot analysis of anti-PECAM-1/CD31 antibody (BA1346). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Jurkat whole cell lysates,
Lane 2: human THP-1 whole cell lysates,
Lane 3: human placenta tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PECAM-1/CD31 antigen affinity purified polyclonal antibody (BA1346) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PECAM-1/CD31 at approximately 120-130 kDa. The expected band size for PECAM-1/CD31 is at 83 kDa.

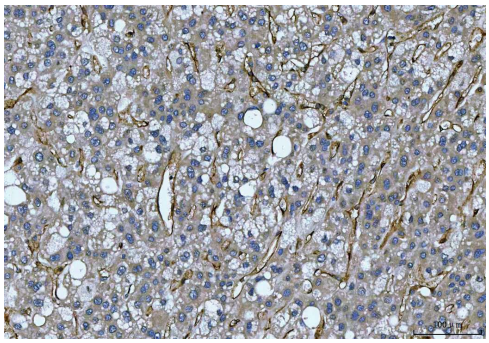

Figure 2. IHC analysis of PECAM-1/CD31 using anti-PECAM-1/CD31 antibody (BA1346).
PECAM-1/CD31 was detected in a paraffin-embedded section of human liver cancer tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.

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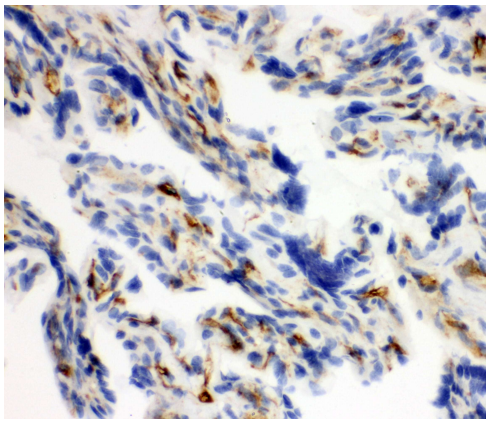

Figure 5. IHC analysis of PECAM-1/CD31 using anti-PECAM-1/CD31 antibody (BA1346).
PECAM-1/CD31 was detected in frozen section of human placenta tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.

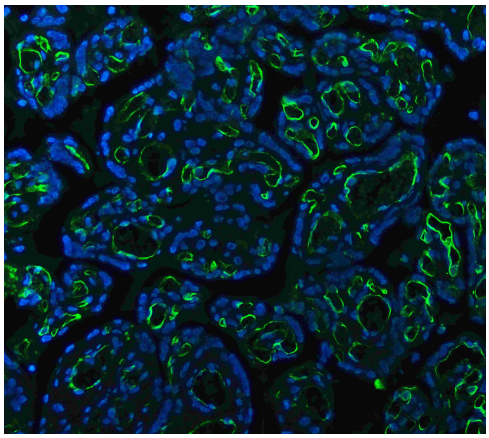

Figure 6. IF analysis of PECAM-1/CD31 using anti-PECAM-1/CD31 antibody (BA1346).
PECAM-1/CD31 was detected in a paraffin-embedded section of human placenta tissue. FITC Conjugated AffiniPure Goat Anti-rabbit IgG (H+L) Secondary Antibody (green)(Catalog#BA1105) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).