

Anti-CD34 Antibody [PSH27-02]

HA724663



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IHC-Fr, IHC-P
Molecular Wt:	Predicted band size: 41 kDa
Clone number:	PSH27-02

Description: CD34 is a transmembrane phosphoglycoprotein protein encoded by the CD34 gene in humans, mice, rats and other species. The CD34 protein is a member of a family of single-pass transmembrane sialomucin proteins that show expression on early haematopoietic and vascular-associated progenitor cells. However, little is known about its exact function. CD34 is also an important adhesion molecule and is required for T cells to enter lymph nodes. It is expressed on lymph node endothelia, whereas the L-selectin to which it binds is on the T cell. Conversely, under other circumstances CD34 has been shown to act as molecular "Teflon" and block mast cell, eosinophil and dendritic cell precursor adhesion, and to facilitate opening of vascular lumina. Finally, recent data suggest CD34 may also play a more selective role in chemokine-dependent migration of eosinophils and dendritic cell precursors. Regardless of its mode of action, under all circumstances CD34, and its relatives podocalyxin and endoglycan, facilitates cell migration.

Positive control: TF-1 (Human erythroleukemia cell) cell lysate.

Subcellular location: Membrane.

Database links: SwissProt: P28906 Human | Q64314 Mouse
Entrez Gene: 305081 Rat

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100
IHC-Fr	1:250
IHC-P	1:2,500

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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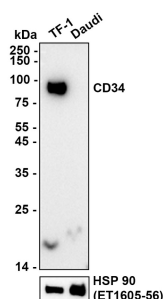
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of CD34 on different lysates with Rabbit anti-CD34 antibody (HA724663) at 1/1,000 dilution.

Lane 1: TF-1 (Human erythroleukemia cell) cell lysate

Lane 2: Daudi (Human Burkitt's lymphoma cell) cell lysate



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Lysates/proteins at 15 µg/Lane.

Exposure time: 3 minutes; ECL: K1801

Negative control: Daudi (PMID: 11606408).

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: HA724663, 1/1,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

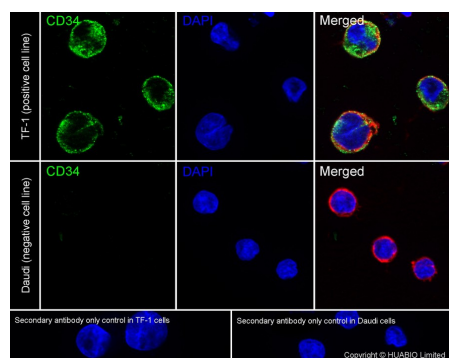
Predicted band size: 41 kDa

Observed band size: 80-120 kDa

Fig2: Application: Immunocytochemistry (IF-cell)

Species: Human

Sample: TF-1 (Human erythroleukemia cell) / Daudi (Human Burkitt's lymphoma cell) (negative)



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Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724663, 1/100, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

Negative control: Daudi (PMID: 11606408).

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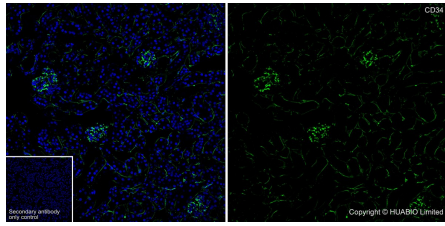


Fig3: Application: Immunofluorescence (IHC-Fr)

Species: Mouse

Tissue: Kidney

Sample: Frozen section

Antigen retrieval: Not required

Wash buffer: 1× TBST

Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.

Primary antibody: HA724663, 1/250, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 1.5 hours at room temperature.

Fig4: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Cerebral cortex

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724663, 1/2,500, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

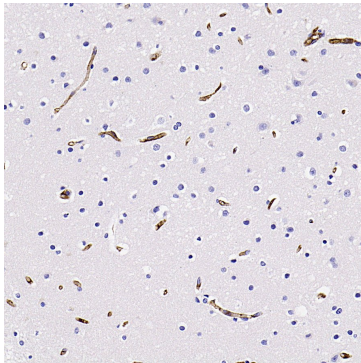


Fig5: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Kidney

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

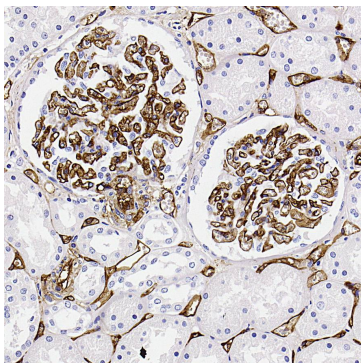
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724663, 1/2,500, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.



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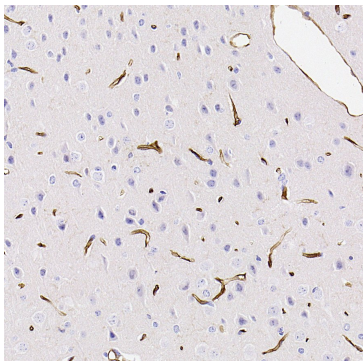


Fig6: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Cerebral cortex

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724663, 1/2,500, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

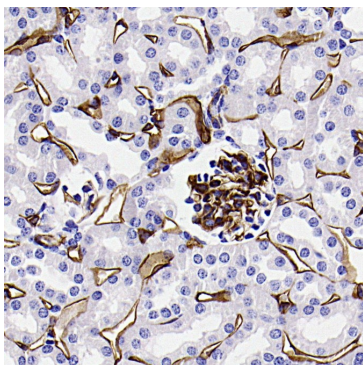


Fig7: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Kidney

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724663, 1/2,500, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

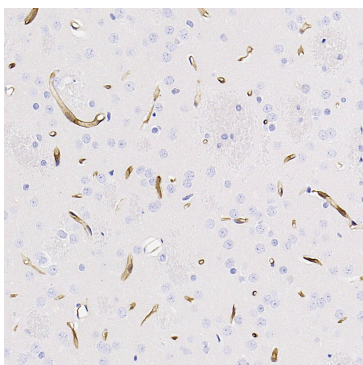


Fig8: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Cerebral cortex

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724663, 1/2,500, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

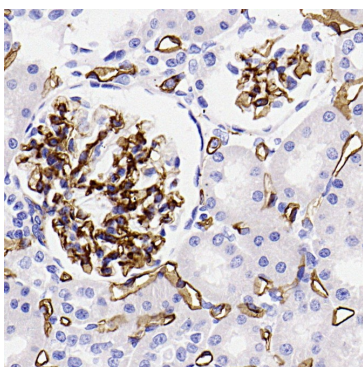


Fig9: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Kidney

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724663, 1/2,500, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Perret R et al. Superficial CD34-Positive Fibroblastic Tumor. Surg Pathol Clin. 2024 Mar
2. Rodrigues CR et al. CD34 Protein: Its expression and function in inflammation. Cell Tissue Res. 2023 Sep

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