Datasheet for ABIN3043391

anti-CD34 antibody (AA 151-385)

3 Images | 83 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	CD34
Binding Specificity:	AA 151-385
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD34 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hematopoietic progenitor cell antigen CD34(CD34) detection. Tested with WB, IHC-P, FCM in Human,Mouse,Rat.
Immunogen:	E.coli-derived human CD34 recombinant protein (Position: T151-L385). Human CD34 shares 79% amino acid (aa) sequence identity with mouse CD34.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Hematopoietic progenitor cell antigen CD34(CD34) detection. Tested with WB, IHC-P, FCM in Human,Mouse,Rat. Gene Name: CD34 Molecule Protein Name: Hematopoietic progenitor cell antigen CD34

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	CD34
Alternative Name:	CD34 (CD34 Products)
Background:	CD34 is a monomeric cell surface antigen with a molecular mass of approximately 110 KD.CD34 is expressed in humans in hematopoietic stem cells, vascular endothelium, and blasts from 30 % of patients with acute myeloid and lymphocytic leukemia. The human CD34 gene spans 26 kb and has 8 exons, a structure quite similar to that of the murine gene. By Southern blot analysis of DNA from a panel of human x mouse somatic cell hybrids using a CD34 cDNA probe demonstrate that the gene for CD34 is located on human chromosome 1 in the 1q12----qter region. CD34 plays an important role in the formation of progenitor cells during both embryonic and adult hematopoiesis. Synonyms: CD34 antibody|Cd34 antibody|CD34 antigen antibody|CD34 Molecule antibody|CD34_HUMAN antibody|Cluster designation 34 antibody|Hematopoietic progenitor cell antigen CD34 antibody|HPCA1 antibody|Mucosialin antibody|OTTHUMP00000034733 antibody|OTTHUMP00000034734 antibody
Gene ID:	947
UniProt:	P28906

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for CD34 is approximately 0.25 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Flow Cytometry: Concentration:1-3 µg/1x106 cells, Tested Species: Human Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

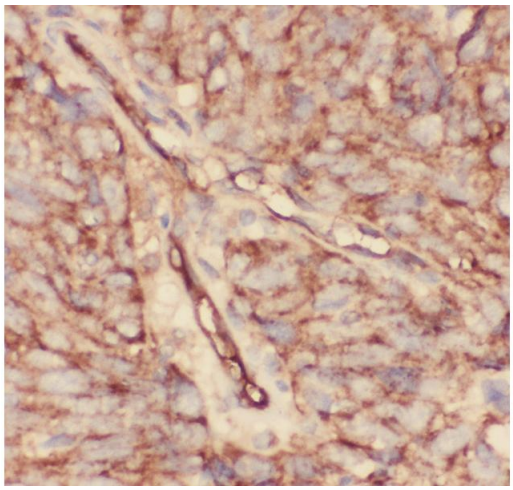
Product cited in:	Zhang, Chen, Wang, Yang, Li, Wang, Liu, Ye: "Treatment of diabetes mellitus-induced erectile dysfunction using endothelial progenitor cells genetically modified with human telomerase reverse transcriptase." in: **Oncotarget**, Vol. 7, Issue 26, pp. 39302-39315, (2018) (PubMed). Hu, Li, Zhang, Zheng, Wang, Zhang, Zhang, Gu, Ye, Guo, Yang, Wang: "Phosphoinositide 3-Kinase (PI3K) Subunit p110δ Is Essential for Trophoblast Cell Differentiation and Placental Development in Mouse." in: **Scientific reports**, Vol. 6, pp. 28201, (2018) (PubMed). Qin, Ke, Zhou, Wang, Liang, Wang, Yang, Gao, Ye, Kumar, Wang: "Metastasis-Associated Protein 1 Deficiency Results in Compromised Pulmonary Alveolar Capillary Angiogenesis in Mice." in: **Medical science monitor : international medical journal of experimental and clinical research** , Vol. 23, pp. 3932-3941, (2018) (PubMed). Chu, Zhang: "Inhibition of angiogenesis by leflunomide via targeting the soluble ephrin-A1/EphA2 system in bladder cancer." in: **Scientific reports**, Vol. 8, Issue 1, pp. 1539, (2018) (PubMed). Zhang, Yuan, Wang, Shao, Liu, Firestone, Hong, Li, Xin, Li: "Experimental evidence of good efficacy and reduced toxicity with peptide-doxorubicin to treat gastric cancer." in: **Oncotarget**,

Publications

Vol. 9, Issue 2, pp. 1957-1968, (2018) (PubMed).

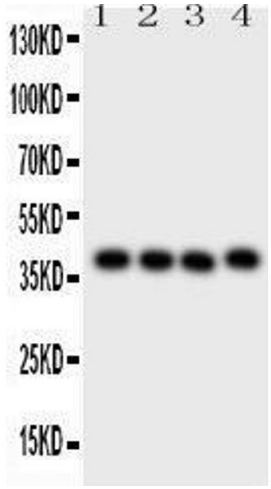
There are more publications referencing this product on: Product page

Images



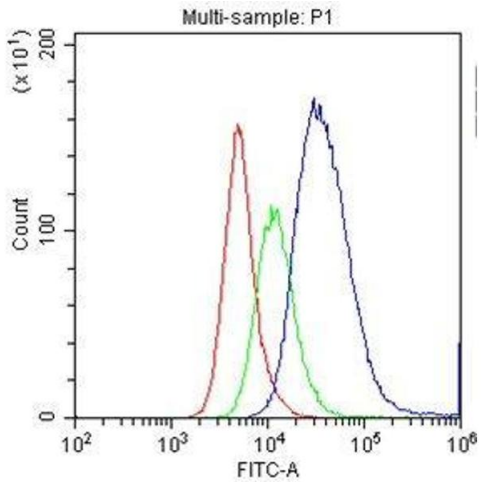
Immunohistochemistry

Image 1. Anti-CD34 Picoband antibody, IHC(P): Human Lung Cancer Tissue



Western Blotting

Image 2.



Flow Cytometry

Image 3. Flow Cytometry analysis of Raji cells using anti-CD34 antibody . Overlay histogram showing Raji cells stained with (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD34 Antibody (,1µg/1x106 cells) for 30 min at 20°C. DyLight?488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x106) used under the same conditions.

Unlabelled sample (Red line) was also used as a control.