Datasheet for ABIN3044374

anti-CD34 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	CD34
Binding Specificity:	AA 366-382, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD34 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hematopoietic progenitor cell antigen CD34(CD34) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human CD34(366-382aa QATSRNGHSARQHVVAD), identical to the related mouse and rat sequences.
Sequence:	QATSRNGHSA RQHVVAD
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, IHC-F in Human,Mouse,Rat. Gene Name: CD34 Molecule

Product Details

	Protein Name: Hematopoietic progenitor cell antigen CD34
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
UniProt:	P28906

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Mouse, Rat 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. IHC-F: Concentration: 0.5-1 μg/mL, Tested Species: Mouse, Rat, Predicted Species: Human Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. 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) and IHC(F).
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 Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES 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.
Expiry Date:	12 months

Publications

Product cited in:	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). Zhu, Xiong, Zhang, Qiu, Hua, Tang: "Comparison of semi-quantitative and quantitative dynamic contrast-enhanced MRI evaluations of vertebral marrow perfusion in a rat osteoporosis model." in: **BMC musculoskeletal disorders**, Vol. 18, Issue 1, pp. 446, (2018) (PubMed). Ling, Wang, Tao, Zhang, Guan, You, Lu, Zhang, Chen, Wu, Qian, Liu, Xu, Chen: "Involvement of aberrantly activated HOTAIR/EZH2/miR-193a feedback loop in progression of prostate cancer." in: **Journal of experimental & clinical cancer research : CR**, Vol. 36, Issue 1, pp. 159, (2018) (

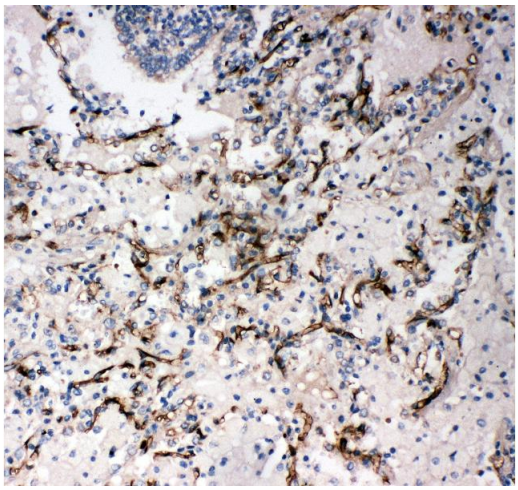
Publications

PubMed).

Li, Chen, Lin, Liu, Dai, Tang, Yang, Huang: "The earlier, the better: the effects of different administration timepoints of sorafenib in suppressing the carcinogenesis of VEGF in rats." in: **Cancer chemotherapy and pharmacology**, Vol. 81, Issue 1, pp. 207-216, (2018) (PubMed).

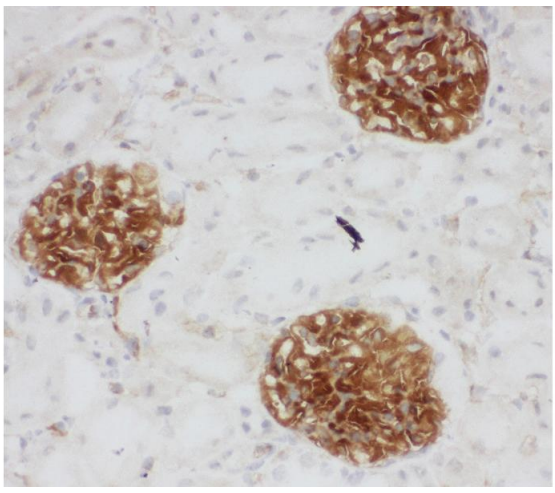
There are more publications referencing this product on: Product page

Images



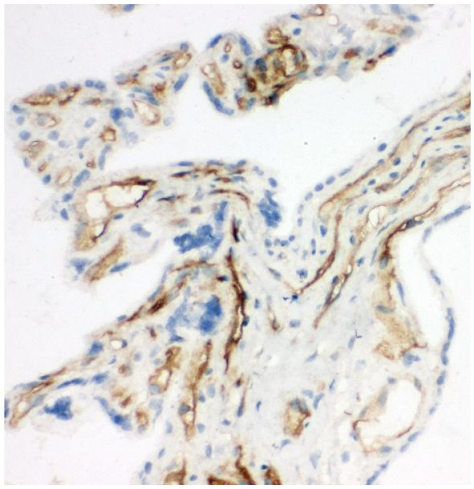
Immunohistochemistry

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



Immunohistochemistry

Image 2. Anti-CD34 antibody, IHC(F) IHC(F): Rat Kidney Tissue



Immunohistochemistry

Image 3. Anti-CD34 antibody, IHC(F) IHC(F): Rat Placenta Tissue

Please check the product details page for more images. Overall 5 images are available for ABIN3044374.