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anti-CD34 antibody (AA 151-385)

3 Images

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Publications



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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

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** WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for CD34 is **Application Notes:** 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 $\mu g/mL$.
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:

Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1 expression." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 3, pp. 1975-1982, (2017) (PubMed).

Yu, Yu, Liu, Yu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: **SpringerPlus**, Vol. 5, pp. 215, (2016) (PubMed).

Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: **Cardiovascular diabetology**, Vol. 12, pp. 37, (2013) (PubMed).

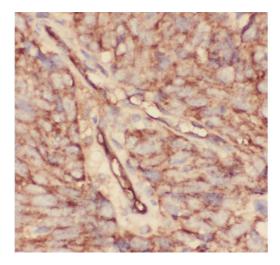
Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: **Journal of medicinal food**, Vol. 16, Issue 7, pp. 577-86, (2013) (PubMed).

Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF-kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat

brains against focal ischemia." in: Brain research, Vol. 1321, pp. 143-51, (2010) (PubMed).

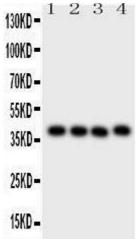
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Validation report #100035 for Immunohistochemistry (IHC)



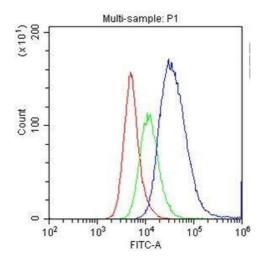
Immunohistochemistry

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	 nunohistochemistry (IHC)
	Unlabelled sample (Red line) was also used as a contro