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36-3590: Anti-CD34 (Hematopoietic Stem Cell & Endothelial Marker) Monoclonal Antibody(Clone: HPCA1/1806R)

Clonality :	Monoclonal
Clone Name :	HPCA1/1806R
Application :	FACS,IHC
Reactivity :	Human, Rat
Gene :	CD34
Gene ID :	947
Uniprot ID :	P28906
Alternative Name :	Hematopoietic Progenitor Cell Antigen, HPCA1, Mucosialin
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant full-length human HPCA1 protein

Description

This antibody recognizes a transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Its expression is a hallmark for identifying pluripotent hematopoietic stem or progenitor cells. Its expression is gradually lost as lineage committed progenitors differentiate. CD34 is a marker of choice for staining blasts in acute myeloid leukemia. In addition, it is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. CD34 expression is also found in vascular endothelium. Additionally, proliferating endothelial cells overexpress this molecule than the non-proliferating endothelial cells. Anti-CD34 labels 85% of angiosarcoma and Kaposi's sarcoma, but shows low specificity.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of recombinant MAb Purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry (1-2ug/million cells); Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

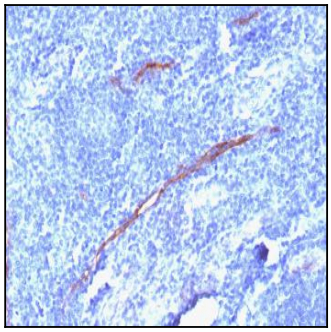


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with CD34 Rabbit Recombinant Monoclonal Antibody (HPCA1/1806R).

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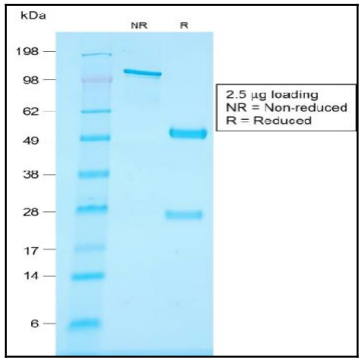


Fig. 2: SDS-PAGE Analysis of Purified CD34 Rabbit Recombinant Monoclonal Antibody (HPCA1/1806R).

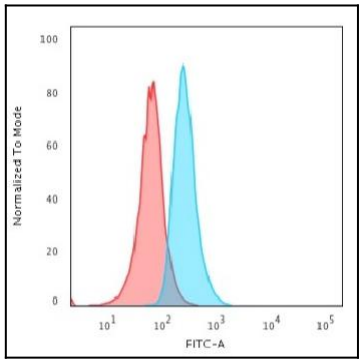


Fig. 3: Flow Cytometric Analysis of human Jurkat cells using CD34 Rabbit Recombinant Monoclonal Antibody (HPCA1/1806R) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

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