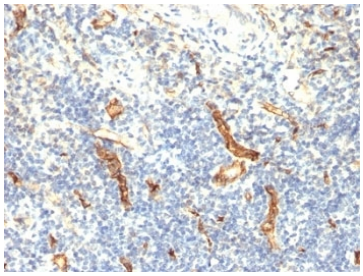
Anti-CD34 Antibody [clone HPCA1/1171] (V3000)

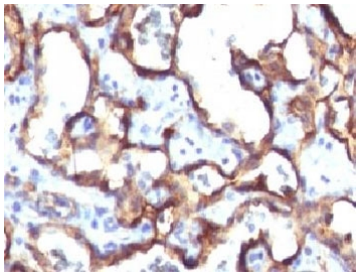
Catalog No.	Formulation	Size
V3000-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3000-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3000SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3000IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

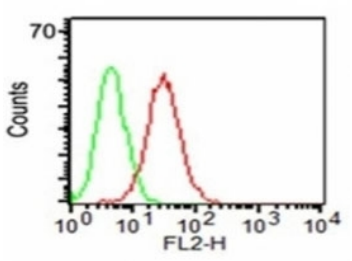
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HPCA1/1171
Purity	Protein G affinity chromatography
UniProt	P28906
Localization	Cell surface
Applications	Flow Cytometry : 0.5-1ug/10^6 cells Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT
Limitations	This anti-CD34 antibody is available for research use only.



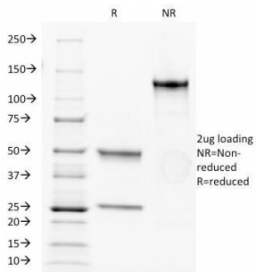
IHC: Formalin-fixed, paraffin-embedded human tonsil stained with anti-CD34 antibody (HPCA1/1171)



IHC: Formalin-fixed, paraffin-embedded human angiosarcoma stained with anti-CD34 antibody (HPCA1/1171)



Flow cytometry testing of KG-1 cells using anti-CD34 antibody (red) and isotype control (green).



SDS-PAGE Analysis of Purified, BSA-Free Anti-CD34 Antibody (clone HPCA1/1171). Confirmation of Integrity and Purity of the Antibody.

Description

This antibody recognizes a carbohydrate epitope on a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34 (VI international workshop on human differentiation antigens). 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.

Application Notes

Optimal dilution of the anti-CD34 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant full-length human protein was used as the immunogen for the anti-CD34 antibody.

Storage

Store the anti-CD34 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).