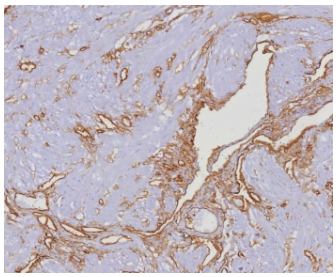
CD34 Antibody [clone HPCA1/4393R] (V4801)

Catalog No.	Formulation	Size
V4801-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4801-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4801SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	HPCA1/4393R
Purity	Protein A/G affinity
UniProt	P28906
Localization	Cell Surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD34 antibody is available for research use only.



IHC staining of FFPE human uterus tissue with CD34 antibody (clone HPCA1/4393R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

CD34 (also named myeloid progenitor cell antigen) is a heavily glycosylated type I transmembrane protein. There are two forms of the CD34 protein, resulting from alternative splicing. The functions of CD34 is largely unknown, but recent evidence suggests a role for CD34 in cell adhesion and inhibition of hematopoiesis. It is suggested that CD34 is a signaling molecule involved in maintenance of a phenotypically plastic state in undifferentiated cells. CD34 is found in

most endothelia, expressed on the luminal surface and membrane processes interdigitating between endothelial cells, but is absent from large veins and arteries. CD34 is furthermore expressed in fibroblast-like dendritic cells in, e.g., portal tracts of the liver, Peyer's patches, and in healing wounds. In smooth muscle cells, a variable CD34 staining is found. In tumor tissues, CD34 is detected in myeloid blasts in myelodysplastic syndrome and acute myeloid leukemia in most cases as well as lymphoblasts in most cases of B-acute lymphoblastic leukemia. Mature B- and T-cell lymphomas and leukemias are CD34 negative. The majority of vascular tumors, including hemangiosarcoma and Kaposi sarcoma are CD34positive. In a panel, CD34 staining is useful for the classification of myeloid and lymphoid neoplasms as well as spindle cell neoplasms (particularly identification of gastrointestinal stromal tumor and hemangiosarcoma).

Application Notes

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

Immunogen

A synthetic peptide corresponding to a portion of human CD34 protein (within amino acids 285-385) was used as the immunogen for the CD34 antibody.

Storage

Aliquot the CD34 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.