

CD34 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50042

Clone# BP6047

Predicted Molecular Wt: 41kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P28906

Background:

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 signalling 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 leukaemia in most cases as well as lymphoblasts in most cases of B-acute lymphoblastic leukaemia. Mature B- and T-cell lymphomas and leukaemias are CD34 negative. The majority of vascular tumours, including haemangiosarcoma and Kaposi sarcoma are CD34 positive.

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 tumour and haemangiosarcoma).

Subcellular location:

Membrane

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide corresponding to CD34 residues within aa285-385 of CD34 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C

Storage instructions:

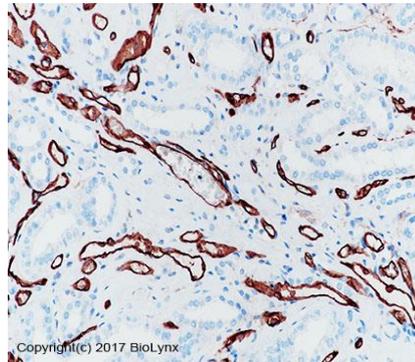
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Baumheter S, et.al, Science. 1993 Oct 15;262(5132):436-8.
2. Fina L, et.al, Blood. 1990 Jun 15;75(12):2417-26.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of kidney tissue labelling CD34 with BP6047. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.