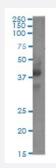


RecomAb™

# CD34 monoclonal antibody, clone My10

Catalog # RAB01075 Size 200 ug

## **Applications**



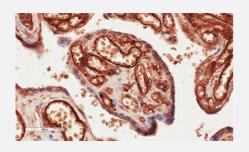
## Western Blot (Cell lysate)

Western blot analysis of CD34 monoclonal antibody, clone My10 (Cat # RAB01075).

Jurkat cell extract (35 ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit antibody (Cat # RAB01075) at 0.1 ug/mL before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for the canonical isoform of CD34 is 40.9kDa, though a second isoform at 35.2kDa is also present, with a 56 amino acid truncation at the C-terminus of the protein (Uniprot ID: Q64314). CD34 is also glycosylated at several positions. Cat # RAB01075 successfully detected both isoforms of human CD34.

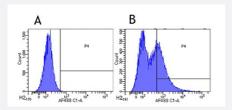
# Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical staining of human placenta tissue using CD34



monoclonal antibody, clone My10 (Cat # RAB01075). Immunohistochemical staining of paraffin embedded human placenta tissue using the rabbit-chimeric antibody(Cat # RAB01075). Antigen retreival was acheived by microwaving in citrate buffer (pH 6), followed by blocking with protein block serum-free buffer. Primary antibody incubation with Cat # RAB01075 was carried out at 4 ug/mL for 30 minutes. Samples were then incubated with an anti-rabbit IgG HRP secondary antibody for 20 mins followed by DAB, and counter-staining with haemotoxylin. Strong endothelial staining of within villi may be observed. Recommended concentration, 2-4 ug/mL.





## Flow Cytometry

Flow-cytometry using CD34 monoclonal antibody, clone My10 (Cat # RAB01075).

Human leukocytes were stained with an isotype control (panel A) or the rabbit-chimeric antibody (Cat # RAB01075, panel B) at a concentration of 1 ug/mL for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.

Specification	
Product Description	Rabbit recombinant monoclonal antibody raised against human CD34.
Antibody Species	Rabbit
Reactivity	Human
Specificity	This antibody reacts to CD34.
Form	Liquid
Purification	Protein A affinity purified
Isotype	Rabbit lgG, kappa
Recommend Usage	Flow Cytometry Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% Proclin 300)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

# **Applications**



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Gene Info — CD34	
Entrez GenelD	947
Protein Accession#	P28906
Gene Name	CD34
Gene Alias	-
Gene Description	CD34 molecule
Omim ID	142230
Gene Ontology	<u>Hyperlink</u>
Gene Summary	CD34 is a monomeric cell surface antigen with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells.[supplied by OMIM
Other Designations	CD34 antigen OTTHUMP00000034733 OTTHUMP00000034734 hematopoietic progenitor cell a ntigen CD34



# Pathway

- Cell adhesion molecules (CAMs)
- Hematopoietic cell lineage

### Disease

- Carcinoma
- Disease Progression
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hepatitis C
- Liver Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Tobacco Use Disorder
- Viremia