



20150126ML

Anti-Mouse CD34 (#1A9)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M103
Size:	200 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with recombinant mouse CD34 protein. IgG2a fraction of the culture supernatant was purified by Protein G affinity chromatography.

Target Background

Synonyms (Target):	Cd34; AU040960
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CD34 is a sialomucin molecule that is expressed on primitive hematopoietic stem cells and downregulated as they differentiate into mature cells. Although its precise function remains unknown, the pattern of expression of CD34 suggests that it plays a significant role in early hematopoiesis.

Database References Target

Protein RefSeq:	NP_598415
Uniprot ID:	Q64314
mRNA RefSeq:	NM_133654.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#1A9)
Isotype	IgG2a
Purification	Protein G chromatography
Antigen	Recombinant Mouse CD34 protein
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 400 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect mouse CD34 protein.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

IHC

Recommended usage:

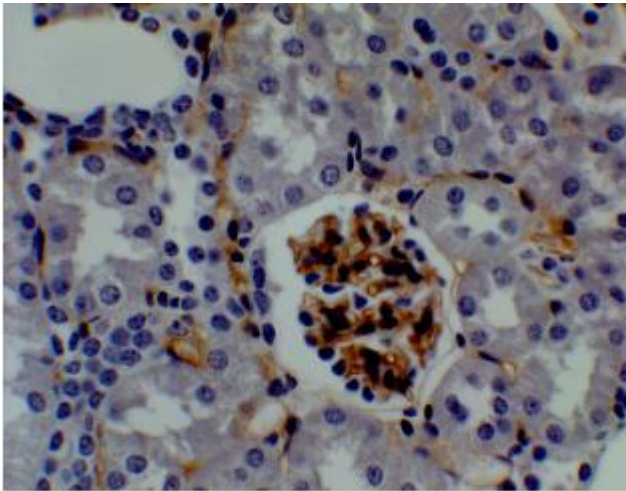
IHC (paraffine): 1:100 - 1:300

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Application/Handling



Both paraformaldehyde and Bouin's solution fixed and paraffin embedded normal mouse kidney section was subjected to immunohistochemistry staining (ABC) of CD34 using 103-M103. Specific CD34 signal (DAB) is noted in vascular endothelial cells.