

Rabbit Anti-Mouse CD34 Antigen Monoclonal Antibody

Cat. No. CAB11499RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit monoclonal antibody to mouse Cd34 antigen.
Species	Mouse
Source	Rabbit
Antigen Description	Mouse CD34 molecule is a member of a family of single-pass transmembrane sialomucin proteins, and is selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues. As a monomeric cell surface antigen, CD34 is highly glycosylated with nine potential N-linked and numerous potential O-linked glycosylation sites in its extracellular domain. Although used clinically in hematopoietic stem cell transplantation for more than 15 years, little is known about the exact function of CD34. It may act as an adhesion molecule in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells, and is also required for T cells to enter lymph nodes via interaction with L-selectin. It was indicated that CD34 is a phosphorylation target for activated PKC, and couples to the hematopoietic adapter protein CrkL, which were involved in CD34 signaling pathways. CD34 is aberrantly expressed in many kinds of tumors and is implicated in leukemogenesis.
Specificity	Mouse CD34
Immunogen	Recombinant Mouse CD34 Protein
Isotype	Rabbit IgG

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Clone	014
Applications	Western Blot; ELISA; Immunohistochemistry
Dilution	Immunochemistry: IHC-P: 1 - 5 µg/mL. Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect Mouse CD34 in WB. Using a DAB detection system, the detection limit for Mouse CD34 is approximately 0.25 ng/lane under reducing conditions. Use of this antibody under non-reducing conditions is not recommended. Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect Mouse CD34. The detection limit for Mouse CD34 is approximately 0.00975 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse CD34.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Cd34 CD34 antigen [<i>Mus musculus</i>]
Official Symbol	Cd34
Synonyms	CD34; CD34 antigen; hematopoietic progenitor cell antigen CD34; cluster designation

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Gene ID	12490
mRNA Refseq	NM_001111059
Protein Refseq	NP_001104529
Pathway	Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem;
Function	carbohydrate binding; sulfate binding; transcription factor binding;
Immunochemical Staining of mouse CD34 in mouse kidney with Rabbit Monoclonal Antibody . Positive staining was localized to vascular endothelial cells.	