

Anti-CD34 Antibody (1D438)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	1D438
Purification:	Protein A

Applications

1. Immunochemical Staining of mouse CD34 in mouse stomach with Rabbit Monoclonal Antibody at 1:5000 dilution, formalin-fixed paraffin embedded sections. Positive staining was localized to vascular endothelial cells.
2. Immunochemical Staining of mouse CD34 in mouse kidney with Rabbit Monoclonal Antibody at 1:5000 dilution, formalin-fixed paraffin embedded sections. Positive staining was localized to vascular endothelial cells.
3. Flow cytometric analysis of CD34 expression on M1 cells. Cells were stained with purified anti-Mouse CD34, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
4. Mouse CD34 was immunoprecipitated using:
 - Lane A:0.5 mg Hela Whole Cell Lysate.
 - Lane B:0.5 mg 293T Whole Cell Lysate

0.5 µL anti-Mouse CD34 rabbit monoclonal antibody and 15 µL of 50 % Protein G agarose.

 - Primary antibody:
 - Anti-Mouse CD34 rabbit monoclonal antibody, at 1:350 dilution.
 - Secondary antibody:
 - Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.
 - Developed using the odyssey technique.
 - Performed under reducing conditions.
 - Predicted band size: 41 kDa.
 - Observed band size: 130 kDa.
5. Immunofluorescence staining of CD34 in M1 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-mouse CD34 monoclonal antibody (1:300) at 4°C overnight. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).

Application: ELISA,ELISA(Det),FCM,ICC/IF,IHC-P,IP

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Recommended ELISA: 1:25000-1:50000; IHC-P: 1:2000-1:10000; ICC-IF: 1:100-1:500; FCM: 1:100-1:500; IP: 0.2-1 µL/mg of lysate; ELISA(Det): 1:5000-1:50000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Mouse CD34 Protein (TMPY-01652)

Antigen Species: Mouse

Synonyms: AU040960;CD34 molecule

Biology Area: Cardiac Stem Cell Markers, Hemangioblast Markers

Research Background

Cluster of Differentiation 34 (CD34) is a member of a family of single-pass transmembrane sialomucin proteins, and may function as a cell-cell adhesion factor. CD34 protein is selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues. It has been widely used as a stem and progenitor cell marker, and clinical CD34+ stem cell transplantation (CD34+SCT) has been performed for tumor purging. CD34 monoclonal antibodies are widely used to identify and isolate hemopoietic progenitors and to classify acute and chronic leukemias.

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