

# Monoclonal Antibody to CD34

Cat. #: Mab-607055

## Description:

CD34 is a transmembrane glycoprotein with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells, endothelial cells and some fibroblasts. It could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is highly expressed on hematopoietic progenitors, as well as on endothelial cells. CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.

## Immunogen/Specificity:

Ni-NTA purified truncated recombinant CD34 expressed in E. Coli strain BL21 (DE3).

## Applications :

### Dilution

Western Blot: 1: 200- 1: 1,000

IF: 1:25- 1: 100

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

## Formulation

Antibodies are purified by protein A affinity chromatography

## Reference:

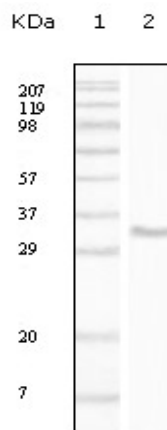
1. Sho E., et al. Arterioscler Thromb Vasc Biol. 2004; 24: 1916-21.
2. Satterthwaite, A.B., et al. Genomics. 1992;12:788-794.
3. Krause, D.S., et al. 1994. Blood. 84: 691-701.

Clone Number: 4H5E7

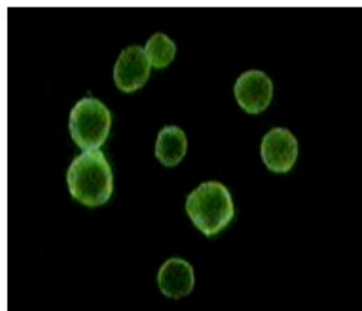
Isotype: IgG

Species: Human

Storage and Stability: stored at -20 C



**Figure 1:** Western blot analysis using CD34 antibody against truncated CD34 recombinant protein.



**Figure 1:** Immunofluorescence analysis of peripheral blood cells using CD34 monoclonal antibody with FITC-IgG.