

## CD34 monoclonal antibody

Catalog: MB66954

Host: Mouse

Reactivity: Human

### BackGround:

CD34 is a type I transmembrane glycoprophosphoprotein expressed by hematopoietic stem/progenitor cells, vascular endothelium, and some fibroblasts. CD34 expression has been the hallmark used to identify hematopoietic stem cells for many years. CD34<sup>+</sup> hematopoietic stem cells expand and differentiate into all the lymphohematopoietic lineages upon cytokine or growth factor stimulation and lose CD34 expression upon differentiation. However, recent studies performed in various laboratories conflict with that convention. The extracellular domain of CD34 is homologous to CD43, a protein involved in cell-cell adhesion, and CD34 has been shown to function as a negative regulator of cell adhesion. CD34 associates with CrkL but not CrkII, is a substrate for PKC, and activation of PKC is coupled with surface expression of CD34.

### Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 95 kDa

### Swiss-Prot:

P28906

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000), IHC (1/100 - 1/500)

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

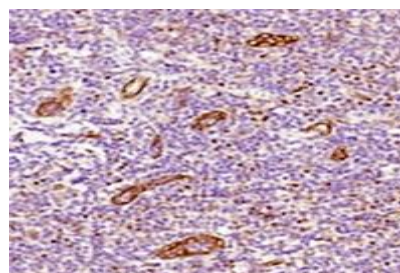
### Specificity:

Recognizes endogenous levels of CD34 protein.

### DATA:



Western blot analysis of CD34 expression in NIH3T3 (A) whole cell lysates.



Immunohistochemical analysis of CD34 staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

### Note:

For research use only, not for use in diagnostic procedure.

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