

**CD34 (4H11)**

Type	Size	Catalog number
FITC	25 tests	108914
	100 tests	108915
	200 tests	108916
PE	25 tests	108924
	100 tests	108925
	200 tests	108926

<b>Antigen:</b>	CD34
<b>Immunogen:</b>	Human cell line derived from peripheral leukocytes from a CML patient
<b>Host/Isotype:</b>	Mouse, IgG1, $\kappa$
<b>Reactivity:</b>	Human
<b>Purity:</b>	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
<b>Formulation:</b>	PBS, pH7.2, 0.09% NaN <sub>3</sub> and 0.2% (w/v) BSA
<b>Storage:</b>	Store at 2-8°C and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Applications:</b>	Flow Cytometry

**Application Information**

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 5 $\mu$ l of these products are sufficient for staining 1 million cells in a 100 $\mu$ l staining volume or 100 $\mu$ l of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

**Antigen Information**

The clone 4H11, a mouse monoclonal antibody recognizes a human ~115 KDa monomeric transmembrane phosphoglycoprotein commonly known as CD34. It is expressed mostly on hematopoietic progenitors and pluripotent stem cells, and in multitude of other nonhematopoietic cell types including muscle satellite cells, corneal keratocytes, interstitial cells, epithelial progenitors, and vascular endothelial progenitors.

The anti-CD34 binding affinity has been assigned to three classes (class I, II or III) based on their neuraminidase and glycoprotease sensitivity response and 4H11 is considered as class III antibody. In clinical practice, CD34 expression is evaluated to ensure rapid engraftment in BM transplants and can also be used as a selective marker in cell sorting to enrich a population of immature hematopoietic cells.

**References**

1. Civin, C.I., et al. 1984, J. Immunol. 133: 157-165.
2. Lanza F., et al. 2001, J. Biol Regul Homeost Agents 15: 1-13
3. Sidney, L.E., et al. 2014, Stem Cells 32(6): 1380-1389.
4. Berardi, A.C., et al. 1995, Science. 267: 104-8

**Terms and Conditions**

This product is for research use only (RUO) and not intended for diagnostic testing.