

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
APC	25 tests	108944
	100 tests	108945
	200 tests	108946
PerCP	25 tests	108934
	100 tests	108935
	200 tests	108936
PerCP-Cyanine5.5	25 tests	108964
	100 tests	108965
	200 tests	108966
PE-Cyanine7	25 tests	108984
	100 tests	108985
	200 tests	108986
iFluor™ 700	25 tests	1089194
	100 tests	1089195
	200 tests	1089196
PE-CF594	25 tests	1089204
	100 tests	1089205
	200 tests	1089206

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

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 5µl of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl 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.

TECHNICAL DATA SHEET

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.