

Product datasheet for **TA320263**

CD34 Mouse Monoclonal Antibody [Clone ID: 4H11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4H11
Applications:	FC
Recommended Dilution:	Flow, Functional Assay, WB
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD34 molecule
Database Link:	NP_001764 Entrez Gene 947 Human P28906

Background: The 4H11 monoclonal antibody reacts with human CD34, also known as mucosialin. CD34 belongs to a protein family which also includes endoglycan and podocalyxin. Members of this family are single pass transmembrane proteins with a heavily glycosylated extracellular and N-terminal mucin domain. CD34 was first identified as an antigen expressed on hematopoietic progenitors, and has since been extensively used as a marker to isolate cells capable of hematopoietic cell engraftment. In spite of this, the function of CD34 remains unresolved. In addition to expression on hematopoietic progenitors, CD34 is expressed on some populations of mesenchymal stem cells, tumor cell lines, and by vascular endothelia in the adult. Epitopes of CD34 have been assigned to three classes (class I, II or III) based on their differential sensitivity to enzymatic cleavage by neuraminidase, chymopapain, or O-glycoprotease. According to this analysis, the 4H11 antibody belongs to class III, indicating that it reacts with a protein epitope.



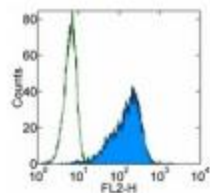
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Synonyms: CD34 antigen; CD34 molecule; hematopoietic progenitor cell antigen CD34; OTTHUMP00000034733; OTTHUMP00000034734

Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Hematopoietic cell lineage

Product images:



Staining of TF-1 cell line with 0.25 ug of Mouse IgG1 K Isotype Control Purified (open histogram) or 0.25 ug of Anti-Human CD34 Purified (filled histogram) followed by F(ab')₂ Anti-Mouse IgG PE. Total viable cells were used for analysis.