ARG55402
anti-CD34 antibody [581] (FITC)

Package: 100 tests
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [581] recognizes CD34
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	581
Isotype	IgG1
Target Name	CD34
Species	Human
Immunogen	Human CD34 protein
Conjugation	FITC
Alternate Names	Hematopoietic progenitor cell antigen CD34; CD antigen CD34

Application Instructions

Application table

Application	Dilution
FACS	4 µl / 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

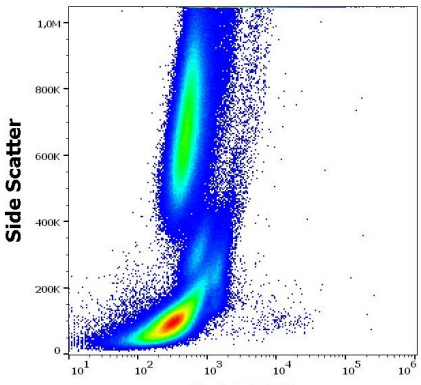
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

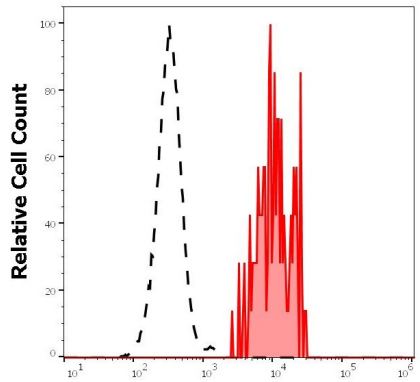
Database links	GeneID: 947 Human Swiss-port # P28906 Human
Gene Symbol	CD34
Gene Full Name	CD34 molecule
Background	CD34 protein may play a role in the attachment of stem cells to the bone marrow extracellular matrix or to stromal cells. This single-pass membrane protein is highly glycosylated and phosphorylated by protein kinase C. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
Function	CD34 is a possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. 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. Presents carbohydrate ligands to selectins. [UniProt]
Highlight	Related products: CD34 antibodies; CD34 Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: Stem cell and the regenerative medicine: Ready for the patients
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Immune System antibody; Neuroscience antibody; Pro-B Cell Marker antibody; Endothelial Cell Marker antibody; Angiogenesis Study antibody
Calculated Mw	41 kDa
PTM	Highly glycosylated. Phosphorylated on serine residues by PKC.

Images



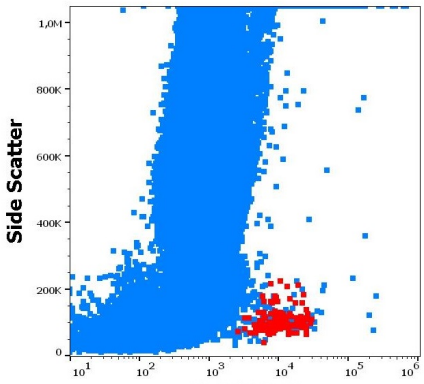
ARG55402 anti-CD34 antibody [581] (FITC) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG55402 anti-CD34 antibody [581] (FITC) (4 µl reagent / 100 µl of peripheral whole blood).



ARG55402 anti-CD34 antibody [581] (FITC) FACS image

Flow Cytometry: Separation of human CD34 positive stem cells (red-filled) from lymphocytes (black-dashed). Human peripheral whole blood stained with ARG55402 anti-CD34 antibody [581] (FITC) (4 µl reagent / 100 µl of peripheral whole blood).



ARG55402 anti-CD34 antibody [581] (FITC) FACS image

Flow Cytometry: Human peripheral whole blood showing CD34 positive stem cells (red). Cells were stained with ARG55402 anti-CD34 antibody [581] (FITC) (4 µl reagent / 100 µl of peripheral whole blood).