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Datasheet for ABIN1111107 anti-CD34 antibody (APC)

3 Images

10 Publications



Overview

Quantity:	100 tests			
Target:	CD34			
Reactivity:	Human, Non-Human Primate			
Host:	Mouse			
Clonality:	Monoclonal			
Conjugate:	This CD34 antibody is conjugated to APC			
Application:	Flow Cytometry (FACS)			

Product Details

Clone:	581		
Isotype:	IgG1 kappa		
Specificity:	The mouse monoclonal antibody 581 reacts with an extracellular epitope of CD34, a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenit cells and on the most pluripotential stem cells, it is gradually lost on progenitor cells. The antibody recognizes the class III CD34 epitope resistant to neuraminidase, chymopapain and glycoprotease.		
No Cross-Reactivity:	Sheep		
Cross-Reactivity (Details):	Human, Non-Human Primates		
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.		

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Target Details

Target:	CD34						
Alternative Name:	CD34 (CD34 Products)						
Background:	CD34 Molecule,CD34 is a highly glycosylated monomeric 111-115 kDa surface protein, which is present on many stem cell populations. It is a well established stem cell marker, though its expression on human hematopoietic stem cells is reversible. CD34 probably serves as a surface receptor that undergoes receptor-mediated endocytosis and regulates adhesion, differentiation and proliferation of hematopoietic stem cells and other progenitors. CD34 expression is likely to represent a specific state of hematopoietic development that may have altered adhering properties with expanding and differentiating capabilities in both in vitro and in vivo conditions.						
Gene ID:	947						
UniProt:	P28906						
Application Details							
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.						
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.						
Restrictions:	For Research Use only						
Handling							
Reconstitution:	No reconstitution is necessary.						
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide						
Preservative:	Sodium azide						
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.						
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.						
Storage:	4 °C						

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Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

Cai, Zhang, Zhang, Chen, Hu: "Effect of Th9/IL-9 on the growth of gastric cancer in nude mice." in: **OncoTargets and therapy**, Vol. 12, pp. 2225-2234, (2019) (PubMed).

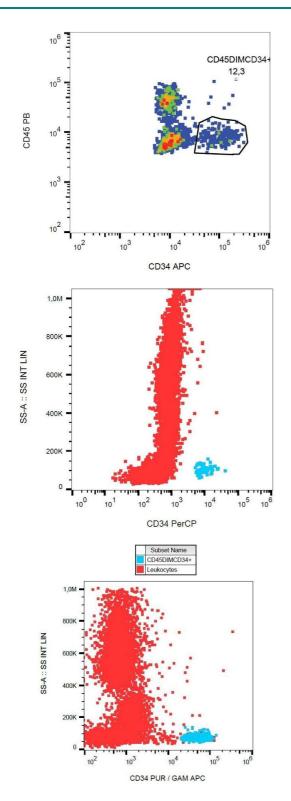
Sanz, Muñoz-A, Monserrat, Van-Den-Rym, Escoll, Ranz, Alvarez-Mon, de-la-Hera: "Ordering human CD34+CD10-CD19+ pre/pro-B-cell and CD19- common lymphoid progenitor stages in two pro-B-cell development pathways." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 107, Issue 13, pp. 5925-30, (2010) (PubMed).

Goardon, Nikolousis, Sternberg, Chu, Craddock, Richardson, Benson, Drayson, Standen, Vyas, Freeman: "Reduced CD38 expression on CD34+ cells as a diagnostic test in myelodysplastic syndromes." in: **Haematologica**, Vol. 94, Issue 8, pp. 1160-3, (2009) (PubMed).

Ninos, Jefferies, Cogle, Kerr: "The thrombopoietin receptor, c-Mpl, is a selective surface marker for human hematopoietic stem cells." in: **Journal of translational medicine**, Vol. 4, pp. 9, (2006) (PubMed).

Ono, Sharma, Smith, Burnett, Aurelian: "CD34+ cells in the peripheral blood transport herpes simplex virus DNA fragments to the skin of patients with erythema multiforme (HAEM)." in: **The Journal of investigative dermatology**, Vol. 124, Issue 6, pp. 1215-24, (2005) (PubMed).

There are more publications referencing this product on: Product page



Flow Cytometry

Image 1. Surface staining of CD34+ cells in human peripheral blood with anti-CD34 (581) APC.

Flow Cytometry

Image 2. Surface staining of CD34+ cells in human peripheral blood with anti-CD34 (581) APC.

Flow Cytometry									
Image	3.	Surface	staining	of	CD34+	cells	in	human	
peripheral blood with anti-CD34 (581) APC.									

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