

# c-Kit Monoclonal Antibody (104D2), PE-Cyanine7

Catalog NumberA14779

Product data sheet

Details		Species Reactivity	
Size	25 tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution *
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	104D2		
Immunogen	MOLM-1 megakaryocytic cells		
Conjugate	PE-Cyanine7		
Form	Liquid		
Storage Conditions	4° C		

## Background/Target Information

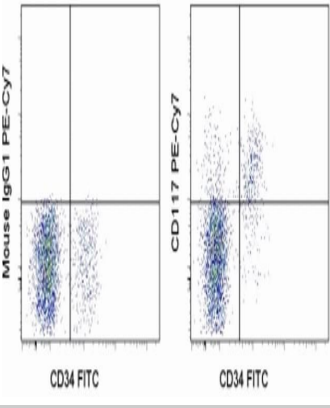
c-Kit, also known as mast/stem cell growth factor receptor (SCFR) or CD117, is a trans membrane type III tyrosine kinase receptor encoded by the c-Kit proto-oncogene, located on chromosome 4 in humans. It is expressed in hematopoietic stem cells, germ cells, mast cells and gastrointestinal tract cajal cells. Upon binding of its ligand stem cell factor (SCF), c-kit dimerizes, resulting in receptor activation and autophosphorylation of various tyrosine residues including tyrosine 703 located on the cytoplasmic domain of the receptor. This modification allows docking of Grb2 and activation of the Ras /ERK signaling pathway. SCF/c-kit can activate multiple downstream signaling pathways including PI3K, PLC-gamma and JAK/STAT. c-kit receptor activation is essential for hematopoiesis, stem cell maintenance and gametogenesis.

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**c-Kit Antibody (A14779) in Flow**  
Staining of normal human peripheral blood cells with the Human Hematopoietic Lineage APC Cocktail, Anti-Human CD34 FITC and Mouse IgG1 K Isotype Control PE-Cy7 (left) or Anti-Human CD117 (c-kit) PE-Cy7 (right, cat. no. A14779). Lineage negative/low cells were used for analysis.

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