

Product datasheet for **SM1720R**

c Kit (KIT) Mouse Monoclonal Antibody [Clone ID: 104D2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	104D2
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 5 μ l of <i>Neat</i> antibody to label 10^6 cells in 100 μ l.
Reactivity:	Bovine, Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	MOLM-1 Megakaryocyte cell line.
Specificity:	This antibody recognises the CD117 cell surface antigen. Functionally CD117 is a receptor for stem cell factor, and has receptor tyrosine kinase activity.
Formulation:	PBS Label: PE State: Liquid purified IgG fraction Stabilizer: 0.2% BSA Preservative: 0.09% Sodium Azide Label: R. Phycoerythrin (RPE)
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	KIT proto-oncogene receptor tyrosine kinase
Database Link:	Entrez Gene 3815 Human P10721



[View online »](#)

Background:

c-kit, also known as stem cell factor receptor, steel factor receptor or CD117 is classified as a type III receptor tyrosine kinase (RTK) belonging to the platelet-derived growth factor receptor subfamily. Binding of stem cell factor (SCF), known as c-kit ligand to c-kit initiate autophosphorylation of the receptor, subsequently leading to promotes a signal transduction cascade through Ras-Raf-MAP kinase cascade, phosphatidylinositol-3-kinase, src family kinases, and STATs. The role of c-kit includes maturation of hematopoietic and primordial germ cells precursors and melanocytes during embryonic development. In acute myeloid leukemia (AML), c-kit has been proposed to play a functional role, and becomes target molecule for drug development.

Synonyms:

SCFR, KIT