

c-Kit Monoclonal Antibody (2B8), PE-Cyanine7

Catalog NumberA16421

Product data sheet

Details	
Size	50 µg
Host/Isotope	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	2B8
Immunogen	IL-3-dependent mast cells derived from normal bone marrow.
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Storage Conditions	4° C

Species Reactivity	
Species reactivity	Mouse
Tested Applications	Dilution *
Flow Cytometry (Flow)	Assay-dependent
* 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.	

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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