

Anti-mouse CD117 (c-Kit) Antibody

Catalog Number:	204101, 204102
Size:	100 ug, 500 ug
Target Name:	CD117, CD-117, c-Kit, Stem Cell Factor Receptor (SCFR)
Regulatory Status:	RUO

PRODUCT DETAILS

Clone:	2B8
Application:	Flow Cytometry
Reactivity:	Mouse
Format:	Purified
Isotype:	Rat IgG2b
Antibody Type:	Monoclonal
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Protein Concentration:	0.5 mg/mL
Storage&Handling:	The antibody solution should be stored between 2°C and 8°C
Isotype Control:	303601

BACKGROUND INFORMATION

CD117, also known as c-Kit or SCFR, is a 145 kD transmembrane tyrosine-kinase receptor and member of the immunoglobulin superfamily. It functions as a critical receptor for stem cell factor (SCF), activating signaling pathways (e.g., STAT) essential for hematopoiesis, melanogenesis, and gametogenesis.

The protein is primarily expressed on hematopoietic stem cells, mast cells, myeloid progenitors, and certain tumor cells like AML. In analytical applications such as flow cytometry, CD117 antibodies serve as vital markers for identifying multipotent progenitors and studying cell survival, proliferation, and differentiation across various embryonic and mature cell lineages.