

c-Kit antibody [ACK2] (PE-Cy7)

Cat. No. GTX01469-10

Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Application	FACS
Reactivity	Mouse

Reference (7)

Package

100 µg

PRODUCT

Summary

The ACK2 antibody is specific for CD117, also called c-Kit, a 145 kDa cytokine receptor important in the development of hematopoietic stem cells, in oogenesis, and for functional activity of immune cells such as NK and mast cells. c-Kit binds to a ligand known as stem cell factor (SCF), or alternatively as mast cell growth factor. Ligand binding promotes the activation (dimerization) and subsequent tyrosine kinase activity of the c-Kit receptor and triggers key survival, expansion and maturation signals during hematopoietic progenitor cell development. Conversely, shedding of extracellular domain of c-Kit receptor is reported to induce inactivation or apoptosis within these cells. The survival signaling activity of c-Kit confers a proto-oncogenic attribute to the receptor, as overexpression or mutations in this protein are associated with tumor development. The ACK2 antibody is widely utilized as a marker to identify hematopoietic progenitors, and to neutralize receptor-ligand binding in vitro and in vivo.

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
FACS	Assay dependent
Not tested in other applications.	
Calculated MW	109 kDa. (Note)

PROPERTIES

Form	Liquid
Buffer	10mM NaH ₂ PO ₄ , 150mM NaCl, 0.1% Gelatin
Preservative	0.09% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. DO NOT FREEZE. Protect from light.
Concentration	0.2 mg/ml (Please refer to the vial label for the specific concentration.)
Purification	Purified by affinity chromatography From tissue culture supernatant
Conjugation	Phycoerythrin-Cyanine7 (PE-Cy7)

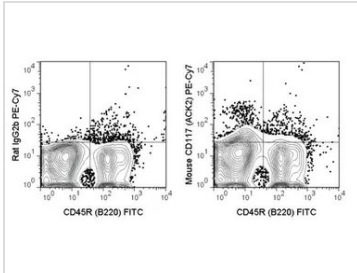


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Note

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES

GTx01469-10 FACS Image

FACS analysis of mouse C57Bl/6 bone marrow cells using GTx01469-10 c-Kit antibody [ACK2] (PE-Cy7).

Right panel : co-stained with c-Kit antibody [ACK2] (PE-Cy7) and Mouse CD45R antibody (FITC)

Left panel : co-stained with isotype control and Mouse CD45R antibody (FITC)

antibody amount : 0.5 μ g (5 μ l)



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