

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

Cat. No. GTX01469-10

Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Applications	FCM
Reactivity	Mouse

References (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.

Applications

Application Note

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

Suggested dilution	Recommended dilution
FCM	Assay dependent
Not tested in other applications.	
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) Wavelength	



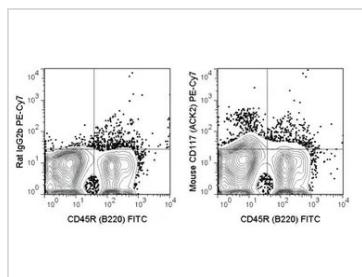
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Note

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 FCM 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 µg (5 µl)



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