

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

Cat. No. GTX01469-10

|                     |            |
|---------------------|------------|
| <b>Host</b>         | Rat        |
| <b>Clonality</b>    | Monoclonal |
| <b>Isotype</b>      | IgG2b      |
| <b>Applications</b> | FCM        |
| <b>Reactivity</b>   | 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

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



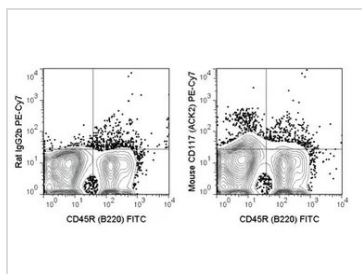
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**Note**

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  $\mu$ g (5  $\mu$ l)



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