

c-Kit antibody [ACK2]

Cat. No. GTX01469

Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Application	ICC/IF, IHC-P, FACS, Depletion
Reactivity	Human, Mouse, Rat

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
ICC/IF	Assay dependent
IHC-P	Assay dependent
FACS	Assay dependent
Depletion	Assay dependent
Inhibition assay	Assay dependent

Not tested in other applications.

Calculated MW 109 kDa. ([Note](#))

PROPERTIES

Form	Liquid
Buffer	10mM NaH ₂ PO ₄ , 150mM NaCl
Preservative	0.09% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.



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Concentration	0.5 mg/ml (Please refer to the vial label for the specific concentration.)
Purification	Purified by affinity chromatography From tissue culture supernatant
Purity	> 90% (determined by SDS-PAGE)
Conjugation	Unconjugated
Note	<p>For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.</p> <p>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.</p>



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