

CD117 (c-Kit) pY705 ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified



Catalog no. 700135

(See product label for lot information)

Clone/PAD: 53H8L29
Isotype: IgG
Gene ID: 3815
Protein Acc. no.: P10721
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Validation

Validated for use in WB

Reactivity

Human: this antibody is specific for pY705 and does not recognize non-phosphorylated c-Kit protein.

Immunogen

peptide

Immunogen sequence

EAAL(pY)KNLLHSKE

Sequence Identity

human, bovine, rat, mouse

Expected Reactivity

Based on sequence identity and similarity, reactivity to human, bovine, rat, and mouse is expected.

Storage

2-8°C for up to 1 month, -20°C for long term storage.
Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

CD117 (c-Kit) is a tyrosine kinase receptor, which is expressed on multipotent hematopoietic stem cells, precursors to B cells and T cells, and myeloerythroid progenitors (1). The interactions of c-Kit and its ligand stem cell factor play a role in the proliferation and differentiation of hematopoietic progenitor cells(1,3).

References

1. Ikuta, K. and I. L. Weissman 1992. Evidence that hematopoietic stem cells express mouse c-kit but do not depend on steel factor for their generation. *Proc. Nat. Acad. Sci. USA* 89: 1502-1506.
2. Rico-Vargas, S. A., B. Weiskopf, S. I. Nishikawa, and D. G. Osmond. Stimulation of B Cell Genesis by In Vivo Treatment with Anti-c-kit Antibody. *Journal of Immunology*, 1994, 152: 2845
3. Matsuzaki, Y. et al. 1993. *J.Exp.Med.* **178**: 1283-1292

Applications:

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

	Species	Test Material	Concentration
Western Blotting	human	H526 + SCF	2-5 µg/ml

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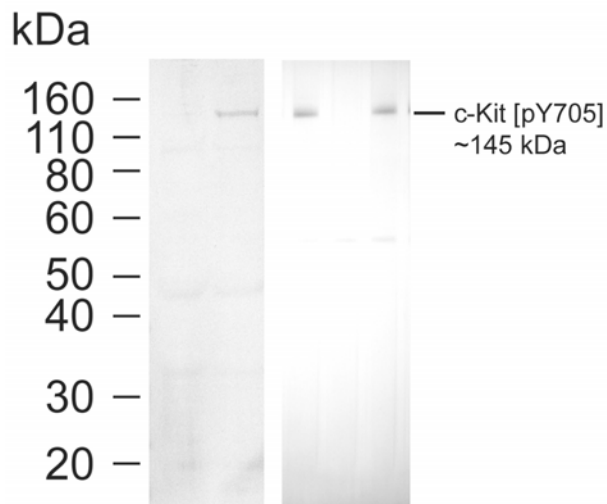
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Western blot of H562 cell lysates labeled with rabbit anti-c-Kit [pY705] (Cat. No. 700135).

Rabbit anti-c-Kit CD117 (C-Kit) [pY703] was used at 2 µg/ml to label phosphorylated c-Kit in western blots. C-Kit [pY703] was detected in cell lysate of serum starved H526 cells (lane 1) or serum starved cells, treated with SCF at 100 ng/mL for 10 minutes (lane 2). For peptide competition the antibody was preincubated for 30 minutes without peptide (lane 3), with the specific phosphopeptide (lane 4) or the non-phosphorylated peptide (lane 5)

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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