

# ABfinity™ c-Kit Recombinant Rabbit Monoclonal Antibody

Store at 2°C to 8°C (short-term), or –20°C (long-term)

Catalog Number 701494

Pub. No. MAN0009611 Rev. 1.00

<b>Clonality:</b> Monoclonal	<b>Quantity:</b> 100 µg	<b>Volume:</b> 200 µL	<b>Concentration:</b> 0.5mg/mL
<b>Host/Class:</b> Rabbit IgG	<b>Reactivity:</b> Human c-Kit	<b>Predicted Reactivity:</b> Human	

## Product Description

c-Kit is a cell surface marker of hematopoietic stem cells, and cytokine receptor encoded by the KIT gene. Upon binding to stem cell factor (c-Kit ligand), it form a dimer that activates tyrosine kinase activity, and phosphorylation of key molecules in several pathways (e.g. PIK3R1, PLCG1, SH2B2/APS, and CBL) involved in cell survival, proliferation, and differentiation. c-Kit is also involved in hematopoietic development, with signaling through c-Kit resulting in mobilization of progenitor cells from the bone marrow into the bloodstream.

## Product Specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 246–261 of human c-Kit
<b>Apparent MW:</b>	~80 kDa
<b>Gene ID:</b>	3815
<b>Synonyms:</b>	KIT, SCFR (mast/stem cell growth factor receptor), protein kinase Kit (type III), CD117
<b>Protein Accession No.:</b>	P10721
<b>Sequence Identity:</b>	Human
<b>Isotype:</b>	IgG
<b>Lot:</b>	See product label

## Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa, Jurkat, and K562 cells	1 µg/mL
Indirect ELISA	Human	Conjugated peptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL

## Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

## Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

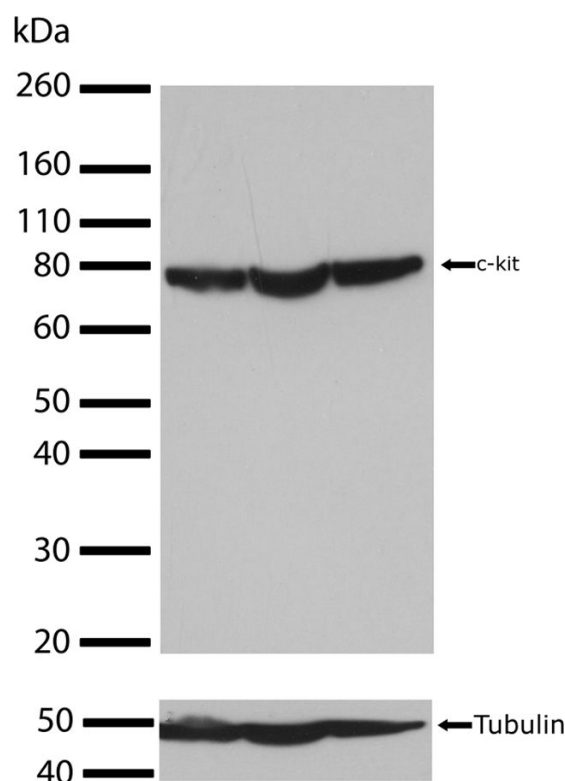


Figure 1 Western blot analysis of ABfinity™ c-Kit Recombinant Rabbit Monoclonal Antibody (Cat. no. 701494).

Western blot analysis was performed on whole cell extracts of HeLa, Jurkat, and K562 cells (Lanes 1–3 respectively). Endogenous level of c-Kit was detected at ~80 kDa using ABfinity™ c-Kit Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL. Secondary antibody used was Goat anti Rabbit HRP (Cat no. 701494). The blot was developed using chemiluminescence (ECL) method.

## Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Product documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

## Limited product warranty

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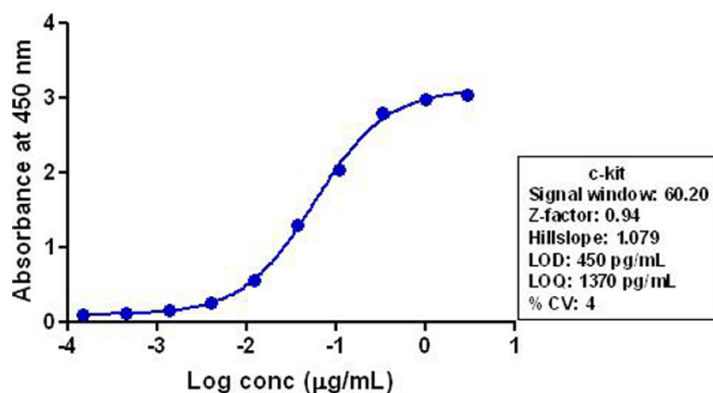


Figure 2 Indirect ELISA of c-Kit ABfinity™ Recombinant Rabbit Monoclonal Antibody [Cat. no. 701494].

Indirect ELISA was performed to detect various dilutions of ABfinity™ c-Kit Recombinant Rabbit Monoclonal Antibody, followed by Goat Anti-Rabbit HRP [Cat. no. G21234], to detect c-Kit conjugated peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

## Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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