

c-Kit Antibody / CD117 (R31671)

Catalog No.	Formulation	Size
R31671	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

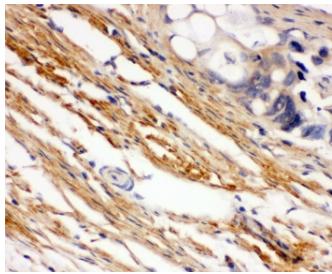
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
Gene ID	3815
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells
Limitations	This c-Kit antibody is available for research use only.

kDa
200 --
116 -- **—**
97 --
66 --
44 --
31 --
22 --
14 --
6 --

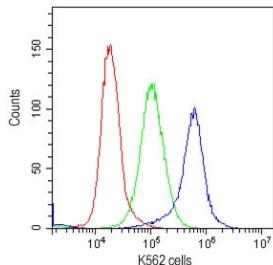
Western blot testing of c-Kit antibody and HEPG2 lysate. Observed molecular weight:
~120/145kDa (precursor/mature).

kDa
200 --
116 -- **—**
97 --
66 --
44 --
31 --
22 --
14 --
6 --

Western blot testing of c-Kit antibody and recombinant human protein (0.5ng)



IHC-P: c-Kit antibody testing of human intestinal cancer tissue



Flow cytometry testing of human K562 cells with c-Kit antibody at 1ug/10⁶ cells (cells blocked with goat sera); Red=cells alone, Green=isotype control, Blue=c-Kit antibody.

Description

SCFR (Mast/stem cell growth factor receptor), also known as CD117, is a protein that in humans is encoded by the KIT gene. c-Kit was first described as the cellular homolog of the feline sarcoma viral oncogene v-kit. It is expressed on the surface of germ cells up to the pachytene stage. Signaling from the receptor, tyrosine kinase is essential for primordial germ cell growth both in vivo and in vitro. Determination of the c-Kit effectors acting in primordial germ cells has been hampered by the lack of effective methods to manipulate easily gene expression in these cells.

Application Notes

The stated application concentrations are suggested starting points. Titration of the c-Kit antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 26-285) was used as the immunogen for this c-Kit antibody. Human protein shares 66% amino acid sequence identity with mouse protein.

Storage

After reconstitution, the c-Kit antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.