

For Research Use Only

# Phospho-CD117/c-Kit (Tyr703) Recombinant antibody

Catalog Number: 83925-1-RR



## Basic Information

Catalog Number:

83925-1-RR

Size:

100ul, Concentration: 1000 ug/ml by  
Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC071593

GeneID (NCBI):

3815

UNIPROT ID:

P10721

Full Name:

v-kit Hardy-Zuckerman 4 feline  
sarcoma viral oncogene homolog

Calculated MW:

976 aa, 110 kDa

Observed MW:

140-160 kDa

Purification Method:

Protein A purification

CloneNo.:

2G1

Recommended Dilutions:

WB 1:2000-1:10000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : SCF treated Mo7e cells,

## Background Information

Kit is composed of five N-glycosylated immunoglobulin domains in the N-terminal extracellular portion that bind SCF, a transmembrane domain, and the carboxy-terminal intracellular tyrosine kinase domain. The binding of SCF autophosphorylates Kit on specific tyrosine residues (Tyr), such as Tyr568/570, Tyr703, Tyr721, and Tyr936. Kit then binds to other cytoplasmic enzymes, such as PI3K and Src kinases, and this complex activates downstream molecules. This activates the Akt-Bad pathway and the Ras-Mek-Erk cascade, which regulate gene expression and cytoskeletal structures, resulting in cell proliferation and survival. (PMID: 28403213)

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

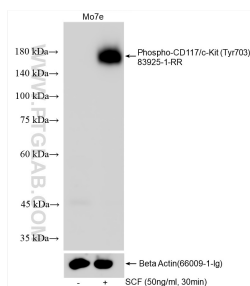
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## Selected Validation Data



Non-treated Mo7e cells and SCF(HZ-1024) treated Mo7e cells were subjected to SDS PAGE followed by western blot with 83925-1-RR (Phospho-CD117/c-Kit (Tyr703) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.