

For Research Use Only

Phospho-CD117/c-Kit (Tyr703) Recombinant antibody, PBS Only

Catalog Number: 83925-1-PBS



Basic Information

Catalog Number:

83925-1-PBS

Size:

100ug, Concentration: 1 mg/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

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

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 -80°C.

Storage Buffer:

PBS Only

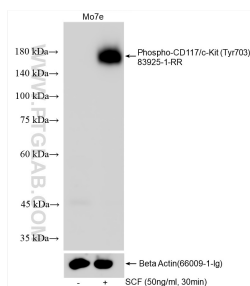
For technical support and original validation data for this product please contact:

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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. This data was developed using the same antibody clone with 83925-1-PBS in a different storage buffer formulation.