For Research Use Only

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

Catalog Number:83925-1-RR

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
83925-1-RR

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)

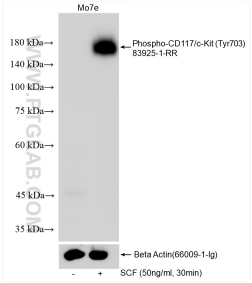
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.