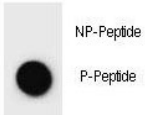
Phospho-c-Kit pY362 Antibody / Phospho-CD117 Polyclonal Antibody (F48716)

Catalog No.	Formulation	Size
F48716-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48716-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P10721
Applications	Dot blot: 1:500
Limitations	This Phospho-c-Kit pY362 Antibody / Phospho-CD117 Polyclonal Antibody is available for research use only.



Phospho-c-Kit pY362 Antibody Phosphopeptide Specificity Dot Blot. Dot blot analysis of Phospho-c-Kit pY362 Antibody using 50 ng per dot of phosphorylated and non-phosphorylated peptide. Strong reactivity is detected with the pY362 phosphopeptide, while the corresponding non-phosphorylated peptide shows no appreciable signal. The clear discrimination between the matched peptides demonstrates phosphorylation-dependent recognition of the Tyr362 epitope and supports the phospho-specificity of the Phospho-CD117 Polyclonal Antibody.

Description

Phospho-c-Kit pY362 Antibody / Phospho-CD117 Polyclonal Antibody recognizes KIT when phosphorylated at tyrosine 362. KIT, also known as c-Kit, CD117 and the stem cell factor receptor, is a type III receptor tyrosine kinase involved in cellular proliferation, survival, differentiation and migration. Stem cell factor binding promotes receptor dimerization and activation, initiating phosphorylation-dependent events that regulate receptor signaling and cellular responses.

KIT consists of an extracellular ligand-binding region, a single transmembrane segment and an intracellular split tyrosine kinase domain. Ligand-induced activation results in phosphorylation of multiple receptor residues and recruitment of intracellular signaling proteins. These interactions connect KIT with pathways including PI3K/AKT and RAS/MAPK, allowing stem cell factor to influence growth, survival and differentiation in responsive cell populations.

Tyrosine 362 is located within the intracellular region of KIT. Site-specific detection of phosphorylation at this residue provides a means of examining a phosphorylated population of the receptor independently of total KIT abundance. A Phospho-CD117 Polyclonal Antibody can therefore complement total-protein detection when investigating changes in receptor phosphorylation state and the regulation of KIT signaling.

KIT signaling has important roles in hematopoietic progenitor cells, mast cells, melanocytes and germ cells. Abnormal KIT activity is also extensively investigated in cancer biology, particularly in gastrointestinal stromal tumors and other malignancies involving altered KIT expression or activating mutations. Phosphorylation-specific detection provides an additional approach for examining receptor regulation in these biological contexts.

NSJ Bioreagents offers this phospho-specific reagent for research into KIT phosphorylation and stem cell factor receptor signaling. The Phospho-c-Kit pY362 Antibody terminology identifies both the receptor and targeted phosphorylation site, while Phospho-CD117 Polyclonal Antibody provides a differentiated search term incorporating the widely used CD117 designation.

A Phospho-c-Kit pY362 Antibody provides a phosphorylation-specific reagent for investigating KIT phosphorylation at Tyr362, while a Phospho-CD117 Polyclonal Antibody supports research into stem cell factor receptor regulation and signaling.

For a Protein Microarray Validated CD117 antibody with GIST IHC validation, see our CD117 Antibody C117/6347 / c-Kit Monoclonal Antibody.

Application Notes

Titration of the Phospho-c-Kit pY362 Antibody / Phospho-CD117 Polyclonal Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Phospho-c-Kit pY362 Antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pY362 of human c-Kit.

Storage

Aliquot the Phospho-c-Kit pY362 Antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Phospho-CD117 antibody, KIT pY362 antibody, Phospho-KIT antibody, Phospho-SCFR antibody, Phospho-Stem Cell Factor Receptor antibody

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