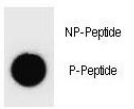
Phospho-KIT pY936 Antibody / Phospho-Stem Cell Factor Receptor Polyclonal Antibody (F48724)

Catalog No.	Formulation	Size
F48724-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48724-0.08ML	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
Predicted Reactivity	Bovine, Pig
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-KIT pY936 Antibody / Phospho-Stem Cell Factor Receptor Polyclonal Antibody is available for research use only.



Phospho-KIT pY936 Antibody Phosphopeptide Specificity Dot Blot. Dot blot analysis of Phospho-KIT pY936 Antibody using 50 ng per dot of non-phosphorylated peptide (NP-Peptide) and KIT pY936 phosphopeptide (P-Peptide). Strong signal is observed with the phosphorylated peptide, while the corresponding non-phosphorylated peptide shows no appreciable signal. This discrimination between the matched peptide pair demonstrates phosphorylation-dependent recognition of the Tyr936 epitope and supports the phospho-specificity of the Phospho-Stem Cell Factor Receptor Polyclonal Antibody.

Description

Phospho-KIT pY936 Antibody / Phospho-Stem Cell Factor Receptor Polyclonal Antibody recognizes KIT when phosphorylated at tyrosine 936. 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. Binding of stem cell factor

promotes receptor dimerization and kinase activation, initiating phosphorylation-dependent events that regulate receptor signaling and cellular responses.

KIT contains an extracellular ligand-binding region, a single transmembrane segment and an intracellular split tyrosine kinase domain. Following activation, phosphorylation of multiple tyrosine residues creates regulatory and protein-interaction sites that connect the receptor with intracellular signaling machinery. KIT can regulate pathways including PI3K/AKT and RAS/MAPK, allowing stem cell factor to influence growth, survival and differentiation.

Tyrosine 936 is located within the intracellular C-terminal region of KIT. Phosphorylation of C-terminal tyrosine residues can create docking sites for signaling and regulatory proteins, providing a mechanism through which receptor activation is coupled to downstream cellular responses. A Phospho-Stem Cell Factor Receptor Polyclonal Antibody allows phosphorylation at Tyr936 to be examined independently of total KIT abundance and can complement total-protein measurements in studies of receptor regulation.

KIT signaling has important roles in hematopoietic progenitor cells, mast cells, melanocytes and germ cells. Dysregulated KIT activity is also extensively investigated in cancer biology, particularly in gastrointestinal stromal tumors and other malignancies involving abnormal KIT expression or activating mutations. Site-specific phospho detection provides an additional approach for examining the molecular events associated with KIT regulation.

NSJ Bioreagents offers this phospho-specific reagent for research into KIT phosphorylation and stem cell factor receptor signaling. The Phospho-KIT pY936 Antibody terminology identifies the receptor and targeted phosphorylation site, while Phospho-Stem Cell Factor Receptor Polyclonal Antibody provides an expanded functional designation incorporating antibody clonality.

A Phospho-KIT pY936 Antibody provides a phosphorylation-specific reagent for investigating KIT phosphorylation at Tyr936, while a Phospho-Stem Cell Factor Receptor Polyclonal Antibody supports research into 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-KIT pY936 Antibody / Phospho-Stem Cell Factor Receptor Polyclonal Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Phospho-KIT pY936 Antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pY936 of human c-Kit.

Storage

Aliquot the Phospho-KIT pY936 Antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Phospho-Stem Cell Factor Receptor antibody, KIT pY936 antibody, Phospho-c-Kit antibody, Phospho-CD117 antibody, Phospho-SCFR antibody

Copyright © NSJ Bioreagents. All rights reserved.