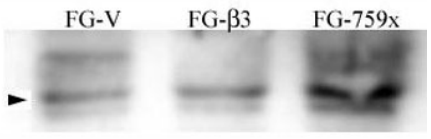
Phospho-Src Antibody (pY215) (F48452)

Catalog No.	Formulation	Size
F48452-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48452-0.08ML	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	Mouse, Rat, Chicken, Zebrafish, Xenopus
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P12931
Applications	Western Blot : 1:1000
Limitations	This phospho-Src antibody is available for research use only.



Western blot analysis of Phospho-Src (pY215) antibody in human FG pancreatic carcinoma cell lines. Lysates from human FG pancreatic carcinoma cells stably expressing vector control (lane 1, FG-V), beta 3 integrin subunit (lane 2, FG-b3), or beta 3 truncation mutant (lane 3, FG-759x) were probed with Phospho-Src antibody. A band is detected near the predicted molecular weight of Src, consistent with phosphorylated Src protein. Increased band intensity is observed in cells expressing beta 3 integrin and the truncation mutant compared to vector control, indicating relative differences in Src phosphorylation levels among the cell lines.

Description

Phospho-Src Antibody (pY215) recognizes Src phosphorylated at tyrosine 215, a post-translational modification associated with regulation of Src kinase activity and downstream signaling events. Src, also known as Proto-oncogene tyrosine-protein kinase Src and c-Src, is a non-receptor tyrosine kinase that plays a central role in cell adhesion, migration, proliferation, and survival signaling. Phosphorylation of Src at specific tyrosine residues, including Y215, contributes to modulation of kinase activity, substrate interaction, and signaling complex assembly. Phospho-Src Antibody

(pY215) is frequently described as Src pY215 antibody, phospho c-Src antibody, or phosphorylated Src antibody in signaling and oncology research.

Src kinase is activated downstream of receptor tyrosine kinases, integrins, and growth factor receptors, where it participates in pathways controlling cytoskeletal organization, focal adhesion dynamics, MAPK signaling, and PI3K-AKT signaling. Tyrosine phosphorylation events regulate conformational changes and catalytic activity of Src family kinases. Detection of phospho-Src at Y215 is commonly used to assess activation status of Src signaling pathways in response to growth factors, extracellular matrix engagement, or oncogenic stimulation.

Aberrant Src activation and increased phospho-Src levels have been reported in multiple malignancies, including breast, colon, lung, and prostate cancers. Elevated Src phosphorylation is often associated with enhanced tumor cell migration, invasion, and metastatic potential. Consequently, phospho-Src antibody staining or immunoblot analysis is frequently performed in studies investigating oncogenic signaling, therapeutic response, kinase inhibitor efficacy, and tumor progression mechanisms.

At the molecular level, Src functions as a central signaling hub integrating extracellular cues with intracellular kinase cascades. Monitoring phosphorylation at Y215 provides insight into dynamic regulation of Src kinase activity and pathway engagement. Phospho-Src Antibody (pY215) is designed to detect phosphorylated Src in research applications examining kinase activation, signal transduction pathways, and phosphorylation-dependent cellular responses.

Application Notes

Titration of the phospho-Src antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-Src antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pY215 of human Src.

Storage

Aliquot the phospho-Src antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.