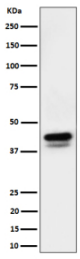
Phospho-c-Jun/JunD (pSer73/pSer100) Antibody [clone 30J61] (FY12568)

Catalog No.	Formulation	Size
FY12568	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30J61
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P05412, P17535
Applications	Western blot: 1:500-1:2000 Immunohistochemistry: 1:50-1:200 Immunoprecipitation: 1:50
Limitations	This Phospho-c-Jun/JunD (pSer73/pSer100) antibody is available for research use only.



Western blot analysis of Phospho-c-Jun (S73)+JunD (S100) expression in mouse RAW 264.7 cell lysate using Phospho-c-Jun/JunD (Ser73/Ser100) antibody. Phospho-c-Jun/JunD (pSer73/pSer100) was detected in RAW264.7 lysate as a ~38-45 kDa doublet, consistent with JNK/MAPK-dependent multi-site phosphorylation of c-Jun and JunD that produces reduced-mobility bands on SDS-PAGE.

Description

Phospho-c-Jun/JunD (pSer73/pSer100) antibody detects the phosphorylated forms of c-Jun and JunD, transcription

factors belonging to the activator protein 1 (AP-1) family. c-Jun, encoded by the JUN gene, and JunD, encoded by the JUND gene, regulate gene expression in response to growth factors, stress signals, and cytokines. Phosphorylation at serine 73 in c-Jun and serine 100 in JunD is mediated by JNK kinases, enhancing transcriptional activity by promoting interaction with co-activators and stabilization of AP-1 complexes. These phosphorylation events are critical for cell proliferation, apoptosis, and stress responses.

Phospho-c-Jun/JunD (pSer73/pSer100) antibody is widely applied in cancer biology, immunology, and stress signaling research. Detection of phosphorylated AP-1 proteins provides insight into MAPK signaling cascades that drive transcriptional reprogramming. Abnormal AP-1 activation contributes to oncogenesis, inflammation, and neurodegeneration. By detecting phosphorylated c-Jun and JunD, researchers can examine how stress-activated kinases influence gene regulation and disease progression.

Western blot assays reveal phosphorylated isoforms distinct from non-phosphorylated proteins. Immunohistochemistry maps AP-1 activation across tissues, while immunofluorescence highlights nuclear localization of phosphorylated c-Jun and JunD. These techniques allow high-resolution tracking of transcription factor activation in diverse biological contexts.

Phosphorylation of c-Jun and JunD integrates signals from growth factors, UV radiation, oxidative stress, and cytokines. Sustained phosphorylation is often linked to tumorigenesis and resistance to therapy, while transient activation supports adaptive responses. By applying Phospho-c-Jun/JunD (pSer73/pSer100) antibody, scientists can evaluate pathway dynamics and investigate therapeutic strategies targeting JNK-AP1 signaling in cancer and inflammation.

Beyond oncology, phosphorylated AP-1 proteins play roles in embryonic development, neuronal plasticity, and immune activation. Their regulation of genes involved in apoptosis, differentiation, and repair underscores their biological importance. The phospho-specific antibody therefore provides a versatile reagent for dissecting cellular responses to external and internal cues.

Phospho-c-Jun/JunD (pSer73/pSer100) antibody from NSJ Bioreagents delivers reliable specificity for studying AP-1 phosphorylation events. Its strong performance across multiple assays makes it a valuable tool for laboratories investigating stress signaling and transcriptional control.

Application Notes

Optimal dilution of the Phospho-c-Jun/JunD (pSer73/pSer100) antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Phospho-c-Jun (S73)+JunD (S100) was used as the immunogen for the Phospho-c-Jun/JunD (pSer73/pSer100) antibody.

Storage

Store the Phospho-c-Jun/JunD (pSer73/pSer100) antibody at -20oC.

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