

Anti-Phospho-c-Jun (S73)+JunD (S100) Antibody [PSH07-12]

HA722800



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 36 kDa
Clone number:	PSH07-12

Description:	Transcription factor Jun is a protein that in humans is encoded by the JUN gene. c-Jun, in combination with protein c-Fos, forms the AP-1 early response transcription factor. It was first identified as the Fos-binding protein p39 and only later rediscovered as the product of the JUN gene. c-jun was the first oncogenic transcription factor discovered. The proto-oncogene c-Jun is the cellular homolog of the viral oncoprotein v-jun (P05411). The viral homolog v-jun was discovered in avian sarcoma virus 17 and was named for ju-nana, the Japanese word for 17. The human JUN encodes a protein that is highly similar to the viral protein, which interacts directly with specific target DNA sequences to regulate gene expression. This gene is intronless and is mapped to 1p32-p31, a chromosomal region involved in both translocations and deletions in human malignancies.
Immunogen:	Synthetic phospho-peptide corresponding to residues surrounding Ser73 of human c-Jun.
Positive control:	HeLa treated with 25µg/mL Anisomycin for 30 minutes cell lysate, NIH/3T3 treated with 250ng/mL Anisomycin for 30 minutes cell lysate, C6 treated with 25µg/mL Anisomycin for 30 minutes cell lysate, HeLa cells treated with UV for 1 hour.
Subcellular location:	Nucleus.
Database links:	SwissProt: P05412 Human P17535 Human P05627 Mouse P15066 Mouse P17325 Rat P52909 Rat
Recommended Dilutions:	
WB	1:2,000
IF-Cell	1:500
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.
Purity:	Protein A affinity purified.

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Orders: 0086-571-88062880

Technical: 0086-571-89986345

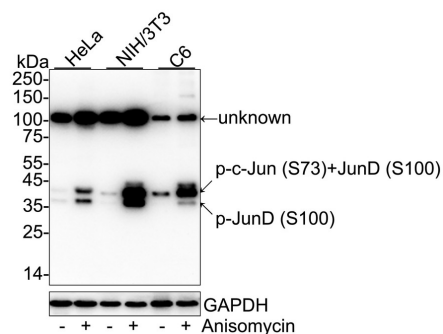
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Phospho-c-Jun (S73)+JunD (S100) on different lysates with Rabbit anti-Phospho-c-Jun (S73)+JunD (S100) antibody (HA722800) at 1/2,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)

Lane 2: HeLa treated with 25µg/mL Anisomycin for 30 minutes cell lysate (20 µg/Lane)

Lane 3: NIH/3T3 cell lysate (20 µg/Lane)

Lane 4: NIH/3T3 treated with 250ng/mL Anisomycin for 30 minutes cell lysate (20 µg/Lane)

Lane 5: C6 cell lysate (20 µg/Lane)

Lane 6: C6 treated with 25µg/mL Anisomycin for 30 minutes cell lysate (20 µg/Lane)

Predicted band size: 36 kDa

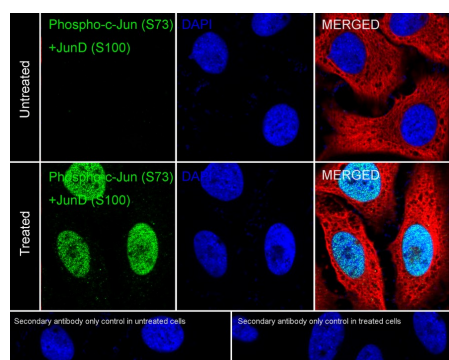
Observed band size: 36-40 kDa

Exposure time: 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722800) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of HeLa cells treated with UV for 1 hour labeling Phospho-c-Jun (S73)+JunD (S100) with Rabbit anti-Phospho-c-Jun (S73)+JunD (S100) antibody (HA722800) at 1/500 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Phospho-c-Jun (S73)+JunD (S100) antibody (HA722800) at 1/500 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Jia Y et al. Long non-coding RNA NEAT1 mediated RPRD1B stability facilitates fatty acid metabolism and lymph node metastasis via c-Jun/c-Fos/SREBP1 axis in gastric cancer. J Exp Clin Cancer Res. 2022 Sep
2. Zhong H et al. c-JUN is a barrier in hESC to cardiomyocyte transition. Life Sci Alliance. 2023 Aug

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