Data Sheet (Cat.No.TMAC-03199)

Anti-Phospho-JUN (Ser63) Antibody (4N22)

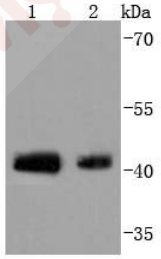
Product Details

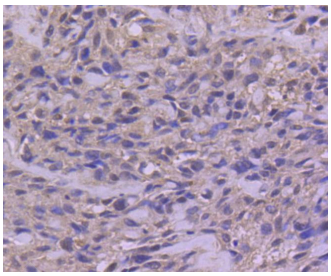
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 40 kDa.
Clone:	4N22
Purification:	ProA affinity purified

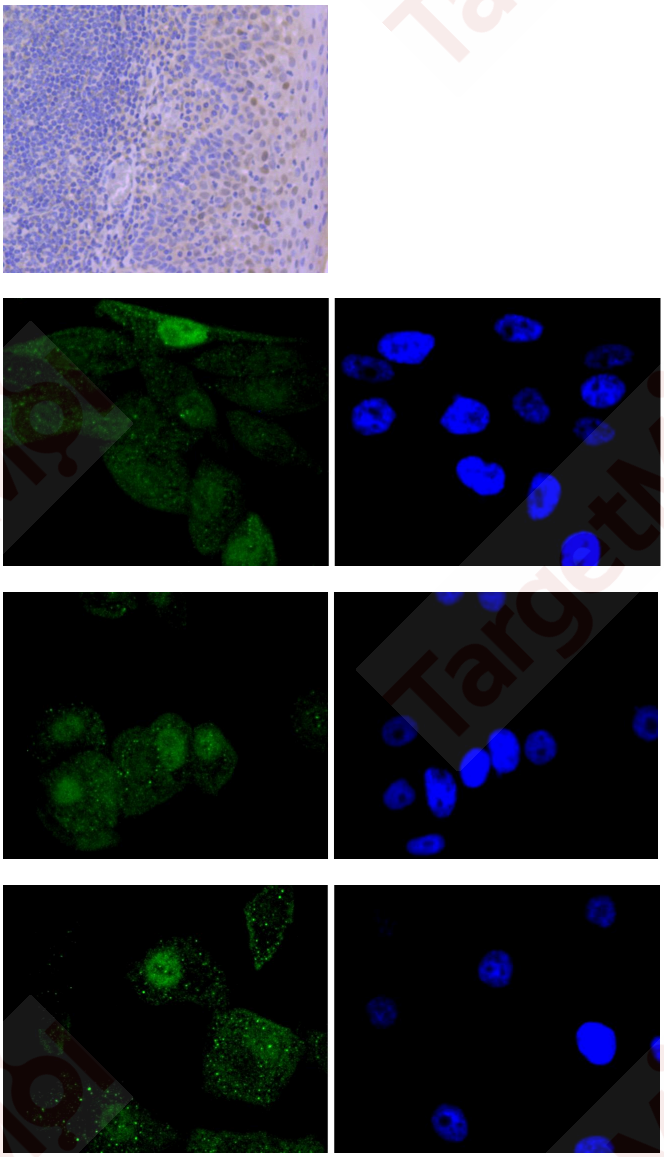
Applications

Verified Activity:

1. Western blot analysis of Phospho-c-Jun (S63) on different lysates using anti-Phospho-c-Jun (S63) antibody at 1/1,000 dilution. Positive control: Lane 1: NIH/3T3, Lane 2: 293T.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Phospho-c-Jun (S63) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Phospho-c-Jun (S63) antibody. Counter stained with hematoxylin.
4. ICC staining Phospho-c-Jun (S63) in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Phospho-c-Jun (S63) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining Phospho-c-Jun (S63) in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.







Application: ICC,IHC,WB

Recommended: WB: 1:1000-2000; IHC: 1:50-100; ICC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human c-Jun around the phosphorylation site of Ser63

Antigen Species: human

Uniprot ID: P05412

Synonyms: p-JUN (S63);p-JUN (Ser63);JUN (p-S63);JUN (p-Ser63)

Research Background

Genes belonging to the Jun and Fos oncogene families encode nuclear proteins that are associated with a number of transcriptional complexes. The c-Jun protein is a major component of the transcription factor AP-1, originally shown to mediate phorbol ester tumor promoter (TPA)-induced expression of responsive genes through the TPA-response

element (TRE). The Jun proteins form homo- and heterodimers which bind the TRE, while Fos proteins are active only as heterodimers with any of the Jun proteins. Fos/Jun heterodimers have a much higher affinity for the TRE than Jun homodimers. Ha-Ras augments c-Jun activity and stimulates phosphorylation of its activation domain. An inhibitor of Fos/Jun function, termed IP-1, associates with Fos and Jun and is inactivated upon phosphorylation induced by the cAMP-dependent protein kinase A (PKA).

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