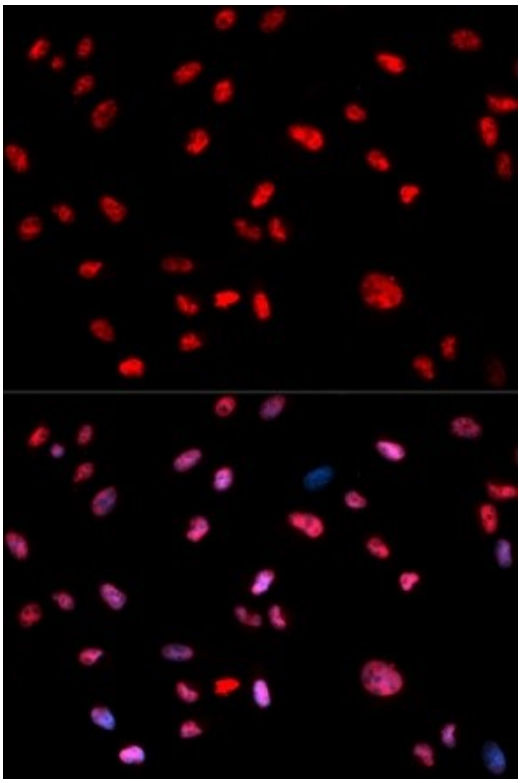
Product name:	Phospho-Jun-(T239)
Cat number:	ABP-0049
Conjugate:	Unconjugated
Size:	100 ug
Clone:	Poly
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Reactivity:	Hu
Applications:	WB: 1:1000, IF: 1:50-1:200
Molecular Weight:	48 kDa
Purification:	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Thr239 of human c-Jun. Antibodies are purified by protein A and peptide affinity chromatography.
Form:	liquid
Buffer:	Supplied in 0.02% sodium azide, 50% glycerol, pH7.3.
Storage:	Store at –20°C. Do not aliquot the antibody.
Background:	: c-Jun is a member of the Jun Family con¬taining c-Jun, JunB and JunD, and is a component of the transcription factor AP-1 (activator protein-1). AP-1 is com¬posed of dimers of Fos, Jun and ATF family members and binds to and activates transcription at TRE/AP-1 elements (reviewed in 1). Extracellular signals including growth fac¬tors, chemokines and stress activate AP-1-dependent tran¬scription. The transcriptional activity of c-Jun is regulated by phosphorylation at Ser63 and Ser73 through SAPK/JNK (reviewed in 2). Knock-out studies in mice have shown that c-Jun is essential for embryogenesis (3), and subsequent studies have demonstrated roles for c-Jun in various tissues and developmental processes including axon regeneration (4), liver regeneration (5) and T cell development (6). AP-1 regulated genes exert diverse biological functions including cell proliferation, differentiation, and apoptosis, as well as transformation, invasion and metastasis, depending on cell type and context (7-9). Other target genes regulate survival as well as hypoxia and angiogenesis (8,10). c-Jun has emerged as a promising therapeutic target for cancer, vas¬cular remodeling, acute inflammation, as well as rheumatoid arthritis (11,12).Phospho-c-Jun (Thr239) Antibody detects endogenous levels of c-Jun only when phosphorylated at Thr239.



Immunofluorescence analysis of U2OS cell using Phospho-c-Jun (Thr239) antibody. Blue: DAPI for nuclear staining.