

## Product datasheet for **AP02570PU-N**

### JUND Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500 - 1/1000; Incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0,1% Tween-20 at 4°C with gentle shaking, overnight. <b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/100. <b>Immunofluorescence:</b> 1/100 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic non-phosphopeptide derived from human JunD around the phosphorylation site of serine 255 (G-E-Sp-P-P).
Specificity:	JunD antibody detects endogenous levels of total JunD protein.
Formulation:	PBS( without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150 mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity-chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	JunD proto-oncogene, AP-1 transcription factor subunit
Database Link:	<a href="#">Entrez Gene 3727 Human P17535</a>



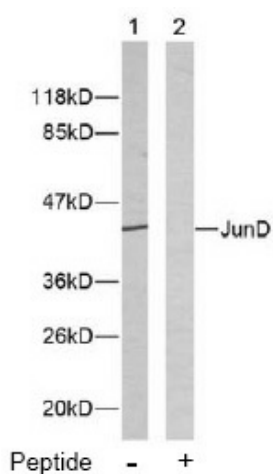
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**Background:**

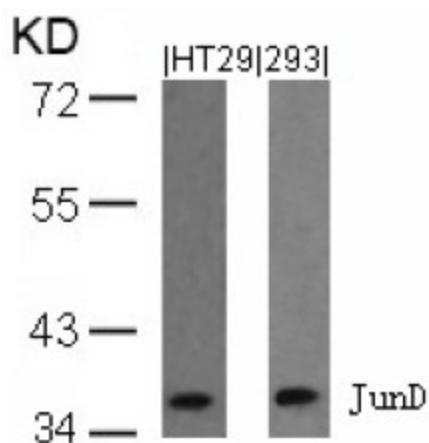
JunD is the most broadly expressed member of the Jun family and the AP1 transcription factor complex. It has been found that primary fibroblasts lacking murine JunD displayed p53-dependent growth arrest, upregulated p19(ARF) expression, and premature senescence. In contrast, immortalized cell lines lacking JunD showed increased proliferation and higher cyclin D1 levels. These properties were reminiscent of the effects of oncogenic RAS expression on primary and established cell cultures. Furthermore, JunD *-/-* fibroblasts exhibited increased p53-dependent apoptosis upon ultraviolet irradiation and were sensitive to the cytotoxic effects of tumor necrosis factor-alpha. The antiapoptotic role of JunD was confirmed using an in vivo model of TNF-mediated hepatitis. The authors proposed that JunD protects cells from senescence, or apoptotic responses to stress stimuli, by acting as a modulator of the signaling pathways that link RAS to p53.

**Synonyms:**

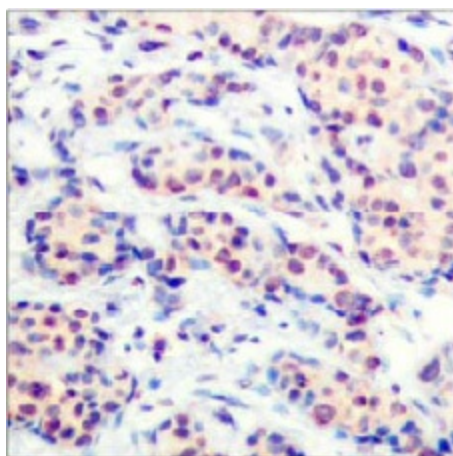
JUND

**Product images:**


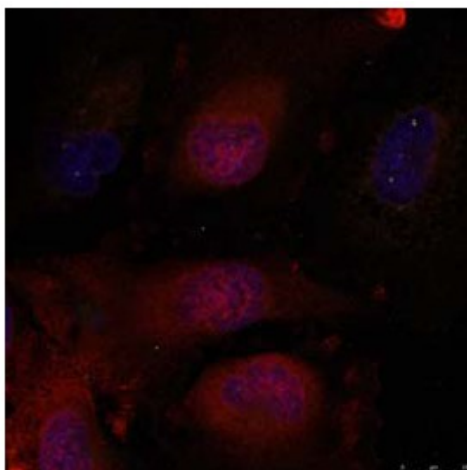
Western Blot analysis of extracts from HT29 and 293 cells using JunD antibody



Western blot analysis of extracts from HeLa cells using JunD antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using JunD antibody



Immunofluorescence staining of methanol-fixed HeLa cells using JunD antibody