

c-Jun Polyclonal Antibody

ORDERING INFORMATION

Catalog no.: 12514-100 (100ug)

Format: Peptide affinity-purified antibody in PBS, 0.02% sodium azide.

BACKGROUND

c-Jun in combination with c-Fos forms the AP-1 early response transcription factor. Studies show that c-Jun is required for progression through the G1 phase of the cell cycle, and c-Jun null cells show increased G1 arrest. c-Jun regulates the transcriptional level of cyclin D1, which is a major retinoblastoma (Rb) kinase. Rb is a growth suppressor, and it is inactivated by phosphorylation. Therefore, c-Jun is required for maintaining sufficient cyclin D1 kinase activity and allowing cell cycle progression. In cells lacking c-Jun, the expression of p53 (cell cycle arrest inducer) and p21 (CDK inhibitor and p53 target gene) is increased, and those cells exhibit cell cycle defect. Overexpression of c-Jun in cells results in decreased level of p53 and p21 and accelerated cell proliferation.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to aa 244-264 of human c-Jun.

Accession nos: NM_002228, P05412

Gene ID: 3725

Host Species: Rabbit

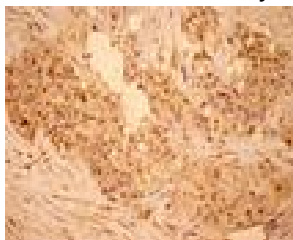
Antibody Class: Polyclonal

Specificity: This antibody recognizes c-Jun in human, mouse, rat, bovine, chicken, dog, *Drosophila*, Guinea pig, hamster, monkey, pig, rabbit, sheep, and *Xenopus*.

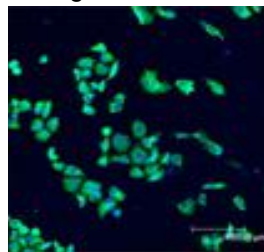
APPLICATIONS

Immunoblotting: use at 1-2ug/ml. A band of ~46kDa is detected.

Immunohistochemistry/Immunofluorescence: use at 1-10ug/ml.



Detection of c-Jun in human breast carcinoma.



Detection of c-Jun (green) in HeLa cells.

These are recommended concentrations.

Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.