

# CPTC-JUN-5 (CAB080219)

**Uniprot ID:** [P05412](#)

**Protein name:** JUN\_HUMAN

**Full name:** Transcription factor Jun

**Tissue specificity:** Expressed in the developing and adult prostate and prostate cancer cells.

**Function:** Transcription factor that recognizes and binds to the AP-1 consensus motif 5'-TGA[GC]TCA-3' (PubMed:10995748, PubMed:22083952). Heterodimerizes with proteins of the FOS family to form an AP-1 transcription complex, thereby enhancing its DNA binding activity to the AP-1 consensus sequence 5'-TGA[GC]TCA-3' and enhancing its transcriptional activity (By similarity). Together with FOSB, plays a role in activation-induced cell death of T cells by binding to the AP-1 promoter site of FASLG/CD95L, and inducing its transcription in response to activation of the TCR/CD3 signaling pathway (PubMed:12618758). Promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation (PubMed:17210646). Involved in activated KRAS-mediated transcriptional activation of USP28 in colorectal cancer (CRC) cells (PubMed:24623306). Binds to the USP28 promoter in colorectal cancer (CRC) cells (PubMed:24623306).

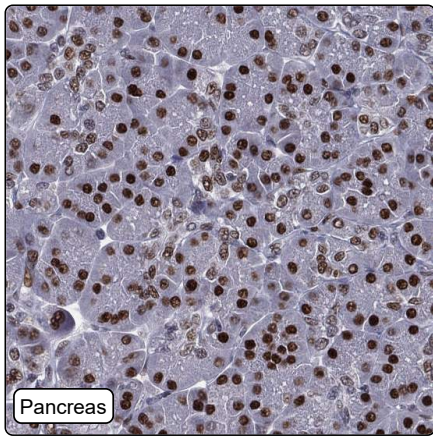
**Subcellular location:**

Nucleus

**Protein existence:** Experimental evidence at protein level

**Comment:**

## Immunohistochemistry



<b>IHC protocol:</b>	HIER pH6, Dilution 1:200
<b>IHC test staining:</b>	Nuclear positivity in most tissues.
<b>Literature conformance:</b>	Consistent with extensive gene/protein characterization data
<b>Literature significance:</b>	
<b>RNA similarity:</b>	Low consistency between antibody staining and RNA expression data
<b>RNA tissue specificity:</b>	Low tissue specificity
<b>RNA tissue distribution:</b>	Detected in all
<b>IHC Sibling similarity:</b>	Other antibody shows partly similar IHC staining pattern
<b>Reliability score:</b>	Supported
<b>APE summary:</b>	Nuclear expression in several tissues, mostly in a fraction of the cells.
<b>APE explanatory sentences:</b>	Medium consistency between antibody staining and RNA expression data.
<b>Orthogonal validation:</b>	No
<b>Independent validation:</b>	No
<b>IHC Annotation summary:</b>	Most normal tissues showed moderate to strong nuclear positivity. Several cases of most cancers showed moderate to strong nuclear positivity.