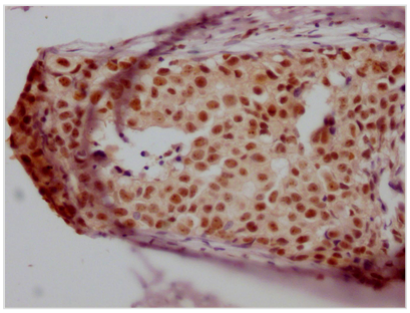
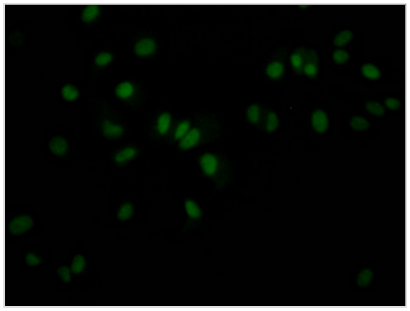
JUNB Recombinant Monoclonal Antibody

Product Code	CSB-RA988421A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P17275
Immunogen	A synthesized peptide derived from human JunB
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF; Recommended dilution: IHC:1:50-1:200, IF:1:20-1:200
Relevance	Transcription factor involved in regulating gene activity following the primary growth factor response. Binds to the DNA sequence 5'-TGA[CG]TCA-3'.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Cancer
Gene Names	JUNB
Clone No.	5H4

Image



IHC image of CSB-RA988421A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of MCF7 Cells with CSB-RA988421A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4?. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

The JUNB recombinant monoclonal antibody is produced in four steps: first, the JUNB monoclonal antibody gene is sequenced; second, the gene is cloned into a plasmid vector; third, the recombinant vector is introduced into a host cell line; fourth, the JUNB recombinant monoclonal antibody is purified from the cell culture supernatant using affinity chromatography, followed by testing and characterization of the purified antibody. The JUNB monoclonal antibody is generated from JUNB antibody-producing hybridomas, using a synthesized peptide derived from human JUNB as the immunogen. The resulting JUNB recombinant monoclonal antibody is recommended for use in detecting human JUNB protein through ELISA, IHC, and IF applications.

JUNB is a member of the AP-1 (activator protein-1) family of transcription factors. It plays a role in regulating gene expression in response to various stimuli such as stress, growth factors, and cytokines. JUNB can act as a transcriptional activator or repressor depending on the context and cellular environment. Its main function is to regulate cell growth, proliferation, differentiation, and survival. JUNB has been implicated in various physiological and pathological processes, including development, immune response, inflammation, and cancer.