abcam

Product datasheet

Anti-c-Jun (phospho S63) antibody [Y172] ab32385

重组 RabMAb

★★★★★ **4 Abreviews**   **78 References**   11 图像

概述

产品名称	Anti-c-Jun (phospho S63)**抗体**[Y172]
描述	**兔单克隆抗体**[Y172] to c-Jun (phospho S63)
宿主	Rabbit
特异性	Anti-c-Jun (phospho S63) antibody [Y172] (ab32385) only detects c-Jun phosphorylated on Serine 63 when tested in WB and ICC using specific phospho-treatments. However, in DotBlot and ELISA assays we detected some cross-reactivity with the non-phospho peptide as well. Please refer to the images on the datasheet. The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
经测试应用	**适用于:** WB, IHC-P, ICC/IF, Dot blot, ELISA **不适用于:** Flow Cyt
种属反应性	**与反应:** Mouse, Human **预测可用于:** Rat, Cow ⚠
免疫原	Synthetic peptide within Human c-Jun aa 50-150 (phospho S63). The exact sequence is proprietary. Database link: **P05412**
阳性对照	WB: UV or Anisomycin treated NIH/3T3 or HeLa whole cell lysate (**ab150035**). IHC-P: Human breast carcinoma tissue. ICC/IF: A431 cells, NIH/3T3 cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	Y172
同种型	IgG

应用

The Abpromise guarantee   **Abpromise™承诺保证使用ab32385于以下的经测试应用**

"应用说明"部分 下显示的仅为**推荐的起始稀释度**；实际**最佳的稀释度/浓度应由使用者**检定。

| 应用	Ab评论	说明
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 42 kDa (predicted molecular weight: 36 kDa).
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/50 - 1/100** The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
ICC/IF		1/100 - 1/200.
Dot blot		1/1000.
ELISA		Use at an assay dependent concentration.

应用说明   Is unsuitable for Flow Cyt.

靶标

功能	Transcription factor that recognizes and binds to the enhancer heptamer motif 5'-TGA[CG]TCA-3'. Promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. 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).
序列相似性	Belongs to the bZIP family. Jun subfamily. Contains 1 bZIP (basic-leucine zipper) domain.
翻译后修饰	Ubiquitinated by the SCF(FBXW7), leading to its degradation. Ubiquitination takes place following phosphorylation, that promotes interaction with FBXW7.

Phosphorylated by CaMK4 and PRKDC; phosphorylation enhances the transcriptional activity. Phosphorylated by HIPK3. Phosphorylated by DYRK2 at Ser-243; this primes the protein for subsequent phosphorylation by GSK3B at Thr-239. Phosphorylated at Thr-239, Ser-243 and Ser-249 by GSK3B; phosphorylation reduces its ability to bind DNA. Phosphorylated by PAK2 at Thr-2, Thr-8, Thr-89, Thr-93 and Thr-286 thereby promoting JUN-mediated cell proliferation and transformation. Phosphorylated by PLK3 following hypoxia or UV irradiation, leading to increase DNA-binding activity.
Acetylated at Lys-271 by EP300.

细胞定位	Nucleus.

图片
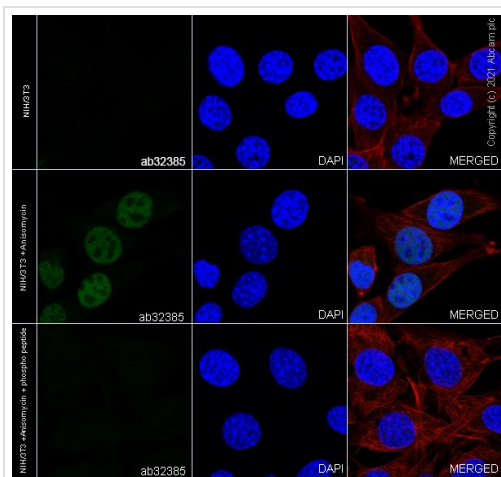
Immunocytochemistry/ Immunofluorescence - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)

Immunocytochemistry confocal image of 4% paraformaldehyde-fixed 0.1% Triton X-100 permeabilized anisomycin-treated NIH/3T3 cell line (mouse embryonic fibroblast), staining nuclear c-Jun with ab32385 at 1:500 dilution and **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1:1000 dilution. The counterstain was **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1:200 dilution, and the nuclear counterstain was DAPI (blue).

The NIH/3T3 cells were treated with 250 ng/ml Anisomycin for 30 minutes and then the signal decreased after phosphatase treatment at 37°C for 2 hours.
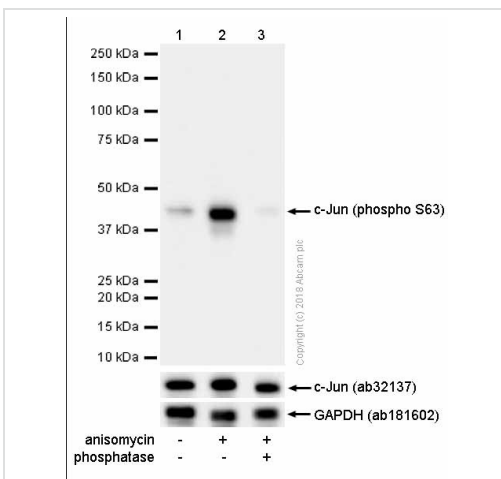
Western blot - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)

All lanes : Anti-c-Jun (phospho S63) antibody [Y172] (ab32385) at 0.1 µg/ml (purified)

Lane 1 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates
Lane 2 : NIH/3T3 (Mouse embryonic fibroblast) treated with 250 ng/ml anisomycin for 30 minutes whole cell lysates
Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) treated with 250 ng/ml anisomycin for 30 minutes whole cell lysates. Then the membrane was incubated with phosphatase
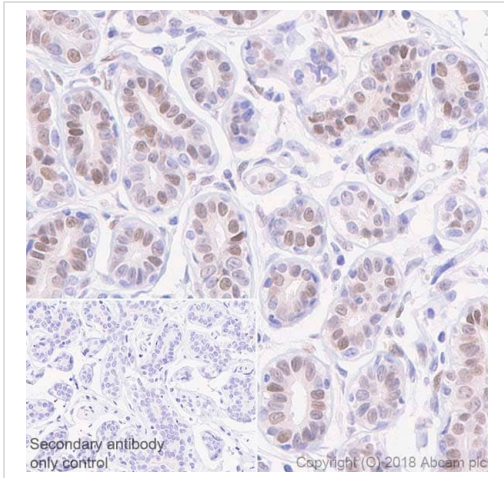
Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 36 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast tissue sections labeling c-Jun with Purified ab32385 at 1:250 dilution (0.46 µg/ml). Heat mediated antigen retrieval was performed using using **ab93684** (Tris/EDTA buffer, pH 9.0)ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylinwas used as a counterstain

Immunocytochemistry/ Immunofluorescence - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)
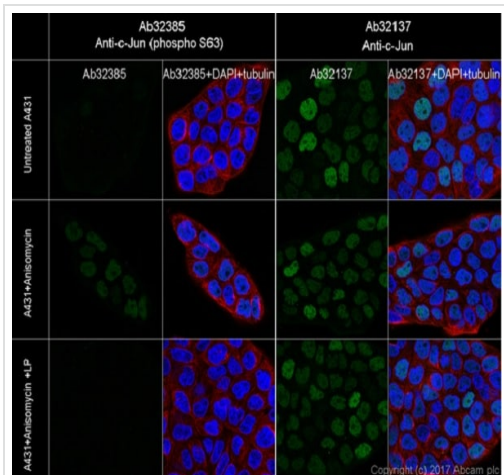
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A431 (Human epidermoid carcinoma cell line) cells labeling c-Jun (phospho S63) with ab32385 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing the expression was increased after treatment with anisomycin (1 µg/ml for 15 minutes), then decreased after treatment with the Lambda Protein Phosphatase treatment 31⎮ for 2 hours. The nuclear counter stain is DAPI (blue). Counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution (red).

Western blot - Anti-c-Jun (phospho S63) antibody
[Y172] (ab32385)
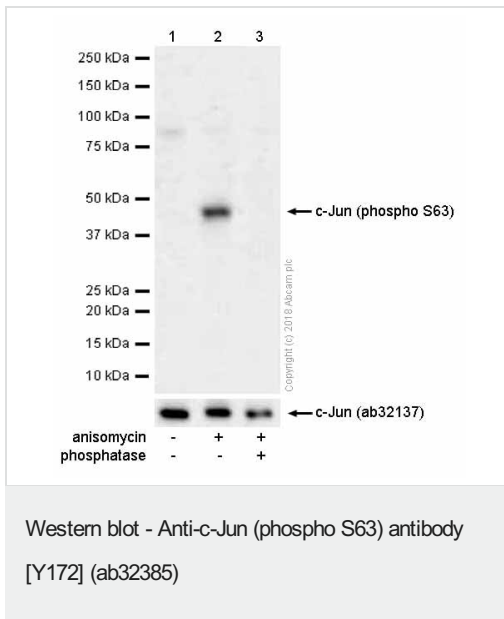
All lanes : Anti-c-Jun (phospho S63) antibody [Y172] (ab32385) at 0.1 µg/ml (purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 1 ug/ml anisomycin for 15 minutes whole cell lysates

Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 1 ug/ml anisomycin for 15 minutes whole cell lysates 15ug. Then the membrane was incubated with phosphatase.

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 36 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab32385).

Western blot - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)
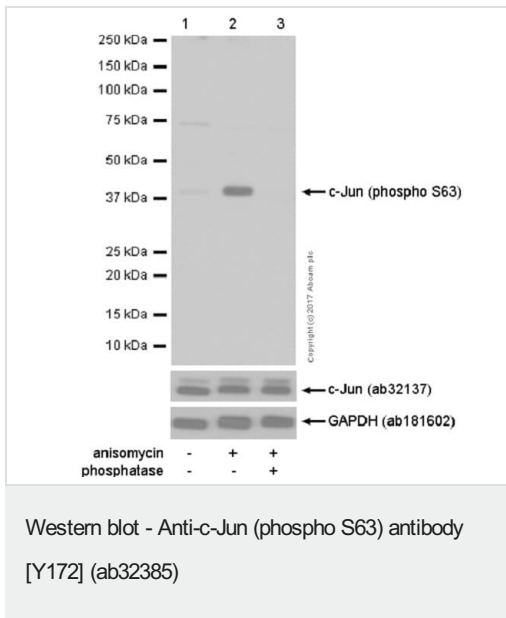
Lane 1 : Anti-c-Jun (phospho S63) antibody [Y172] (ab32385) at 1/1000 dilution (Unpurified)

Lanes 2-3 : Human HRPT2/Parafibromin peptide (**ab23385**) at 1/1000 dilution (Unpurified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates with NFDM/TBST

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 1ug/mL anisomycin for 15 minutes whole cell lysates with NFDM/TBST

Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 1ug/ml anisomycin for 15 minutes whole cell lysates. Then the membrane was incubated with phosphatase. with NFDM/TBST
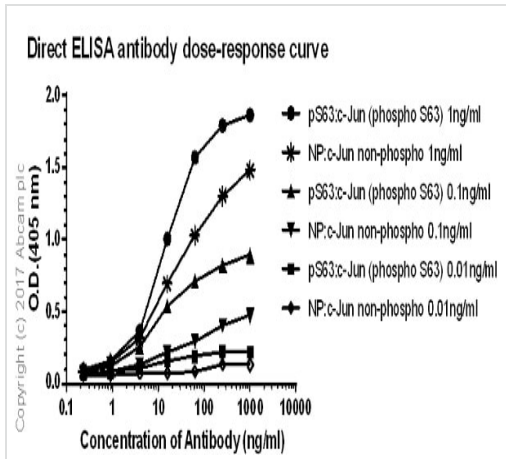
Lysates/proteins at 15 µg per lane.

Blocking peptides at 5 % per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 36 kDa

Direct ELISA antibody dose-response curve

- pS63:c-Jun (phospho S63) 1ng/ml
- NP:c-Jun non-phospho 1ng/ml
- pS63:c-Jun (phospho S63) 0.1ng/ml
- NP:c-Jun non-phospho 0.1ng/ml
- pS63:c-Jun (phospho S63) 0.01ng/ml
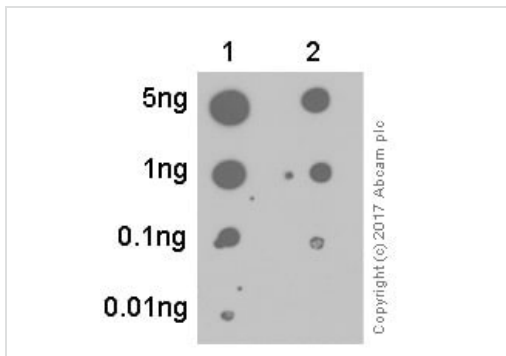- NP:c-Jun non-phospho 0.01ng/ml

ELISA - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)

Antigen pS63:c-Jun (phospho S63); NP:c-Jun non-phospho.

Antigen concentration 0.01~1 ng/ml.

Primary antibody concentration range 0~1000 ng/ml.

Secondary antibody is an Alkaline Phosphatase-conjugated Goat Anti-Rabbit IgG(H+L) used at a 1:2500 dilution.

Dot Blot - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)
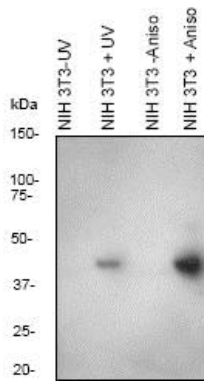
Unpurified ab32385 used at a 1:1000 dilution.

Secondary antibody is Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) used at a 1:100,000 dilution.

Blocking/Diluting buffer and concentration: 5% NFDM/TBST.

Lane 1: Human c-Jun (pS63) phospho peptide.

Lane 2: Human c-Jun non-phospho peptide.

Exposure time 3 minutes.

Western blot - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)

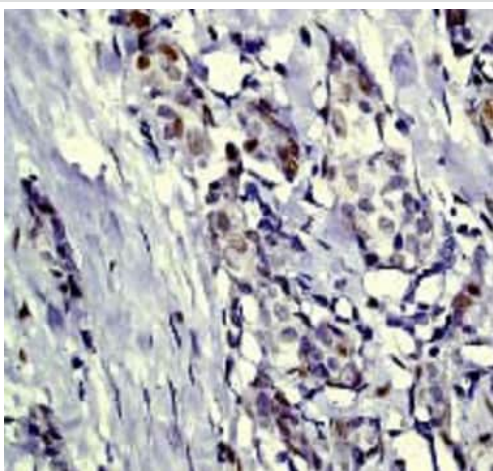**All lanes :** Anti-c-Jun (phospho S63) antibody [Y172] (ab32385) at 1/10000 dilution (Unpurified)

Lanes 1 & 3 : Untreated NIH/3T3 (Mouse embyro fibroblast cell line) cell lysate

Lane 2 : NIH/3T3 (Mouse embyro fibroblast cell line) cell lysate treated with ultraviolet light

Lane 4 : NIH/3T3 (Mouse embyro fibroblast cell line) cell lysate treated with 25 µg/ml Anisomycin for 15 minutes at 37°C

Predicted band size: 36 kDa
Observed band size: 42 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)

Paraffin-embedded human breast carcinoma tissue stained for c-Jun (phospho S63) with unpurified ab32385 at a 1/50 dilution in immunohistochemical analysis.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-c-Jun (phospho S63) antibody [Y172] (ab32385)

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