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Rabbit Anti-Phospho-c-Fos (Ser374) antibody

SL12911R

Product Name:	Phospho-c-Fos (Ser374)
Chinese Name:	磷酸化c-fos抗体
Alias:	c-Fos (phospho S374); c-Fos (phospho-Ser374); c-Fos (phospho Ser374); p-c-Fos (Ser374); Cellular oncogene fos; FBJ murine osteosarcoma viral v fos oncogene homolog antibody FBJ Osteosarcoma Virus; FOS; FOS protein; G0 G1 switch regulatory protein 7; G0S7; Oncogene FOS; Proto oncogene protein c fos; v fos FBJ murine osteosarcoma viral oncogene homolog; AP-1; p55; FOS_HUMAN; Proto-oncogene c-Fos; G0/G1 switch regulatory protein 7.
文献引用 PubMed :	**Specific References(1)**|SL12911R has been referenced in 1 publications. **[IF=8.81]**Liu, Jing-Jing, et al. "A novel AP-1/miR-101 regulatory feedback loop and its implication in the migration and invasion of hepatoma cells." Nucleic Acids Research (2014): gku872.**WB;Human**. PubMed:25260594
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	41kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human c-Fos around the phosphorylation site of Ser374:LS(p-S)PT

Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of the FOS gene has also been associated with apoptotic cell death. [provided by RefSeq, Jul 2008]. **Function:** Nuclear phosphoprotein which forms a tight butnon-covalently linked complex with the JUN/AP-1 transcriptionfactor. In the heterodimer, FOS and JUN/AP-1 basic regions eachseems to interact with symmetrical DNA half sites. On TGF-betaactivation, forms a multimeric SMAD3/SMAD4/JUN/FOS complex at theAP1/SMAD-binding site to regulate TGF-beta-mediated signaling. Hasa critical function in regulating the Has a critical function inregulating the development of cells destined to form and maintainthe skeleton. It is thought to have an important role in signaltransduction, cell proliferation and differentiation. **Subunit:** Heterodimer; with JUN (By similarity). Interacts withMAFB. Component of the SMAD3/SMAD4/JUN/FOS complexrequired for syngernistic TGF-beta-mediated transcription at theAP1 promoter site. Interacts with SMAD3; the interaction is weakeven on TGF-beta activation. Interacts with MAFB. Interacts withDSIPI; this interaction inhibits the binding of active AP1 to itstarget DNA. **Subcellular Location:** Nucleus. **Post-translational modifications:** Phosphorylated in the C-terminal upon stimulation by nerve growth factor (NGF) and epidermal growth factor (EGF). Phosphorylated, in vitro, by MAPK and RSK1. Phosphorylation on both Ser-362 and Ser-374 by MAPK1/2 and RSK1/2 leads to protein stabilization with phosphorylation on Ser-374 being the major site for protein stabilization on NGF stimulation. Phosphorylation on Ser-362 and Ser-374 primes further phosphorylations on Thr-325 and Thr-331 through promoting docking of MAPK to the DEF domain. Phosphorylation on Thr-232, induced by HA-RAS, activates the transcriptional activity and antagonizes sumoylation. Phosphorylation on Ser-362 by RSK2 in osteoblasts contributes to osteoblast transformation. Constitutively sumoylated by SUMO1, SUMO2 and SUMO3. Desumoylated by SENP2. Sumoylation requires

heterodimerization with JUN and is enhanced by mitogen stimulation. Sumoylation inhibits the AP-1 transcriptional activity and is, itself, inhibited by Ras-activated phosphorylation on Thr-232.

Similarity:
Belongs to the bZIP family. Fos subfamily.
Contains 1 bZIP domain.

SWISS:
P01100

Gene ID:
2353

Database links:

Entrez Gene: 2353Human

Entrez Gene: 14281Mouse

Entrez Gene: 314322Rat

Omim: 164810Human

SwissProt: P01100Human

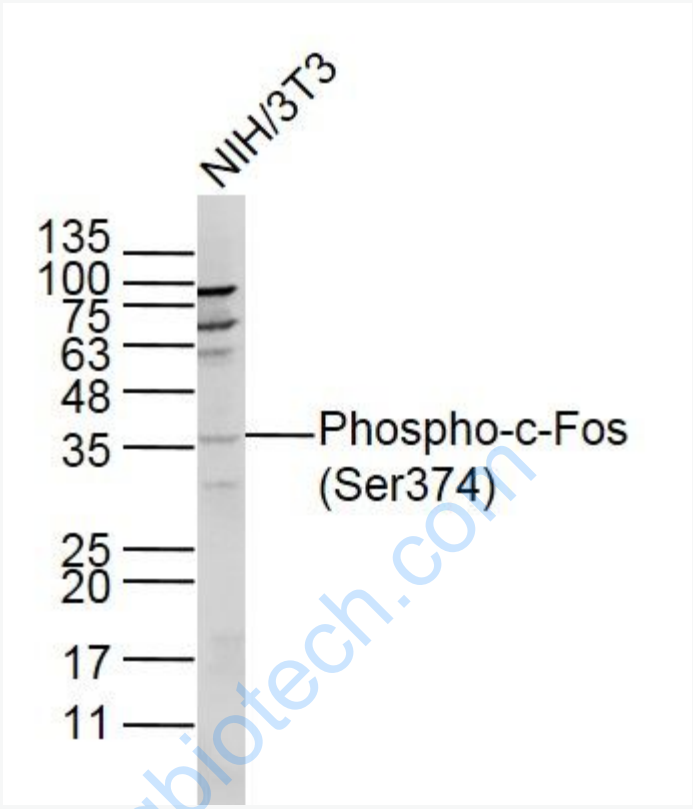
SwissProt: P01101Mouse

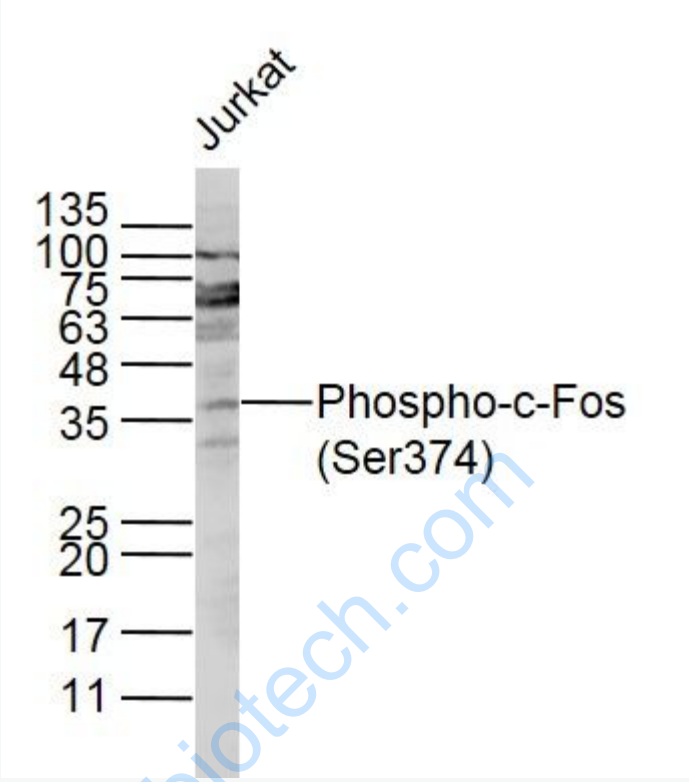
SwissProt: P12841Rat

Unigene: 246513Mouse

Unigene: 103750Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: NIH/3T3 Cell (Mouse) Lysate at 30 ug Primary: Anti- Phospho-c-Fos (Ser374) (SL12911R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 41 kD Observed band size: 36 kD



Sample:

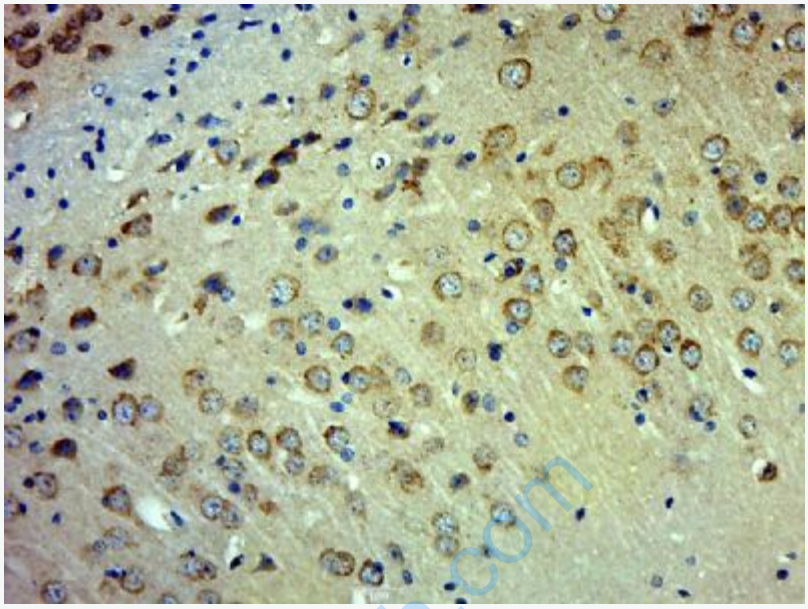
Jurkat Cell Lysate at 30 ug

Primary: Anti- Phospho-c-Fos (Ser374) (SL12911R) at 1/300 dilution

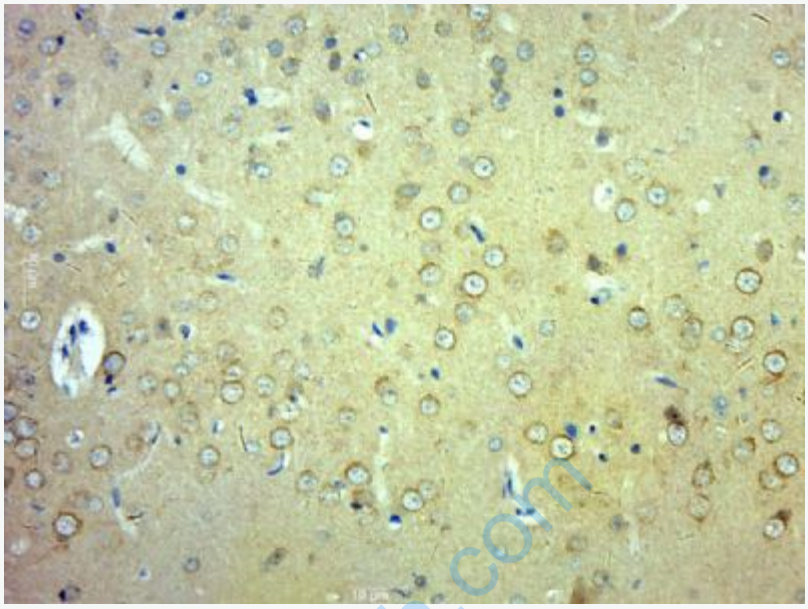
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 41 kD

Observed band size: 36 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-c-Fos (Ser374)) Polyclonal Antibody, Unconjugated (SL12911R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-c-Fos (Ser374)) Polyclonal Antibody, Unconjugated (SL12911R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.