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ARG52272
anti-ELK1 phospho (Ser383) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ELK1 phospho (Ser383)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Dog, NHuPrm, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ELK1
Species	Human
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser383 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	ETS domain-containing protein Elk-1

Application Instructions

Application table

Application	Dilution
WB	1:1,000

Application Note: Specific for ~46k Elk-1 phosphorylated at Ser383. Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

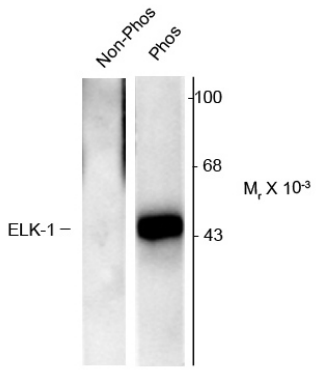
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ELK1
Gene Full Name	ELK1, member of ETS oncogene family
Background	Elk-1 is a transcription factor involved in mediating gene transcription in response to growth factors (Hill and Treisman, 1995). Elk-1 is thought to be phosphorylated by MAP kinase at Ser383 and phosphorylation at this site is essential for the transcriptional activity of Elk-1 (Li et al., 2003). Phosphorylation of Elk-1 has also been implicated in synaptic plasticity in the adult hippocampus (Thiels et al., 2002).
Research Area	Cancer antibody; Gene Regulation antibody; Signaling Transduction antibody
Calculated Mw	45 kDa
PTM	Sumoylation represses transcriptional activator activity as it results in recruitment of HDAC2 to target gene promoters which leads to decreased histone acetylation and reduced transactivator activity. It also regulates nuclear retention. On mitogenic stimulation, phosphorylated on C-terminal serine and threonine residues by MAPK1. Ser-383 and Ser-389 are the preferred sites for MAPK1. In vitro, phosphorylation by MAPK1 potentiates ternary complex formation with the serum responses factors, SRE and SRF. Also phosphorylated on Ser-383 by MAPK8 and/or MAKP9. Phosphorylation leads to loss of sumoylation and restores transcriptional activator activity. Phosphorylated and activated by CAMK4, MAPK11, MAPK12 and MAPK14. Upon bFGF stimulus, phosphorylated by PAK1 (By similarity).

Images



ARG52272 anti-ELK1 phospho (Ser383) antibody WB image

Western blot: non-phospho- and phospho-recombinant Elk-1 showing specific immunolabeling of the ~46 Elk-1 protein phosphorylated at Ser 383 stained with ARG52272 anti-ELK1 phospho (Ser383) antibody.