

Rabbit Elk1 Polyclonal Antibody | anti-Elk1 antibody

Phospho-Elk1 (Ser383) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321555	Rabbit	Human, Mouse, Rat	ELISA, Immunoprecipitation, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Elk1; Polyclonal Antibody; Phospho-Elk1 (Ser383) Antibody; ELK 1; ELK1 member of ETS oncogene family; ELK1 protein; ELK1; ETS transcription factor; ELK1_HUMAN; ELK2 member of ETS oncogene family; ETS domain containing protein Elk 1; ETS domain containing protein Elk1; ETS domain protein Elk1; ETS domain-containing protein Elk-1; ETS like gene 1; Member of ETS oncogene family; Oncogene Elk1; Tyrosine kinase (ELK1) oncogene; anti-Elk1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Elk1 (Ser383) antibody detects endogenous levels of Elk1 only when phosphorylated at Serine 383
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	428
Applicable Applications for anti-Elk1 antibody	ELISA, IP (Immunoprecipitation), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Elk1 around the phosphorylation site of Serine 383
Subcellular Location	Nucleus.
Tissue Specificity	Lung and testis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser383
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Elk1 phosphorylation expression in UV treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemisry)

AAA321555 at 1/100 staining human lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Phospho-Elk1 (Ser383) expression in various lysates



IF (Immunofluorescence)

AAA321555 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Elk1 antibody

Description: This gene is a member of the Ets family of transcription factors and of the ternary complex factor (TCF) subfamily. Proteins of the TCF subfamily form a ternary complex by binding to the the serum response factor and the serum reponse element in the promoter of the c-fos proto-oncogene.

Function: Transcription factor that binds to purine-rich DNA sequences. Forms a ternary complex with SRF and the ETS and SRF motifs of the serum response element (SRE) on the promoter region of immediate early genes such as FOS and IER2. Induces target gene transcription upon JNK-signaling pathway stimulation (By similarity).

Subunit Structure: Interacts in its sumoylated form with PIAS2/PIASX which enhances its transcriptional activator activity (PubMed:15920481). Interacts with MAD2L2; the interaction is direct and promotes phosphorylation by the kinases MAPK8 and/or MAPK9 (PubMed:17296730). Interacts with POU1F1 (PubMed:26612202).

Post-translational Modifications: 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).

Similarity: Belongs to the ETS family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166362732
NCBI GeneID	2002
NCBI Accession #	NP_001107595.1
NCBI GenBank Nucleotide #	NM_001114123.2
UniProt Accession #	P19419; O75606; O95058; Q969X8; Q9UJM4; B2R7H4
Molecular Weight	Observed: 62 kDa Predicted: 45 kDa
NCBI Official Full Name	ETS domain-containing protein Elk-1 isoform a
NCBI Official Synonym Full Names	ELK1, ETS transcription factor
NCBI Official Symbol	ELK1

NCBI Protein Information	ETS domain-containing protein Elk-1
UniProt Protein Name	ETS domain-containing protein Elk-1
UniProt Gene Name	ELK1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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