ELK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ELK1, Polyclonal Antibody
Full Product Name	ELK1 (S383) (ETS Domain-containing Protein Elk-1) (MaxLight 405)
Product Gene Name	anti-ELK1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human ELK1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	45kDa
OMIM	311040
3D Structure	ModBase 3D Structure for P19419
Immunogen	Synthetic peptide corresponding to amino acid residues surrounding S383 of human ELK1 (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-ELK1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-ELK1 antibody	Western Blot (WB), FLISA
Application Notes for anti-ELK1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ELK1 antibody	MBS6473711 is an antibody targeting ELK1. Also known as ELK1 (S383) (ETS Domain-containing Protein Elk-1) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ELK1 antibody	1. Salinas, S., et al., J. Cell Biol. 165(6):767-773 (2004). 2. Yang, S.H., et al., Mol. Cell 12(1):63-74 (2003). 3. Bebien, M., et al., Oncogene 22(12):1836-1847 (2003). 4. Sharrocks, A.D., Biochem. Soc. Trans. 30(2):1-9 (2002). 5. Murai, K., et al., Mol. Cell. Biol. 22(20):7083-7092 (2002).
Other Notes	Small volumes of anti-ELK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ELK1. It may not necessarily be applicable to this product.

NCBI GI #	166362730
NCBI GeneID	2002
NCBI Accession #	NP_005220
UniProt Primary Accession #	P19419
UniProt Related Accession #	P19419
GenBank Nucleotide #	NM_005229
NCBI Official Full Name	ETS domain-containing protein Elk-1 isoform a
NCBI Official Synonym Full Names	ETS transcription factor ELK1
NCBI Official Symbol	ELK1
UniProt Protein Name	ETS domain-containing protein Elk-1
Protein Family	ETS domain-containing protein
UniProt Gene Name	ELK1
UniProt Entry Name	ELK1_HUMAN
NCBI Protein Information	ETS domain-containing protein Elk-1
NCBI Summary for ELK1	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 response element in the promoter of the c-fos proto-oncogene. The protein encoded by this gene is a nuclear target for the ras-raf-MAPK signaling cascade. This gene produces multiple isoforms by using alternative translational start codons and by alternative splicing. Related pseudogenes have been identified on chromosomes 7 and 14. [provided by RefSeq, Mar 2012]
UniProt Comments for ELK1	ELK1: a transcription factor of the Ets family and the ternary complex factor (TCF) subfamily. Forms a ternary complex by binding to the serum response factor and the serum response element in the promoter of the c-fos proto-oncogene. Mediates gene activity in response to serum and growth factors. Phosphorylated by MAP kinase pathways at a cluster of S/T motifs at its C-terminus; phosphorylation at these sites is critical for transcriptional activation by Elk-1. Two alternatively-spliced isoforms have been described. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: Xp11.2 Cellular Component: nucleoplasm; mitochondrion; cell soma; dendrite; nerve terminal; nucleus Molecular Function: protein binding; double-stranded DNA binding; chromatin binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; response to light stimulus; nerve growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; positive regulation of transcription, DNA-dependent; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; cell differentiation; toll-like receptor 4 signaling pathway
Research Articles on ELK1	**1.** enhanced ETS factor activity and the transcription of ETS family target genes related to spliceosome function and cell death induction via alternate MCL1 splicing, is reported.
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