ELK1 (Pt417) Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	ELK1, Blocking Peptide
Full Product Name	ELK1 (pT417) Blocking Peptide
Product Gene Name	ELK1 blocking peptide
Product Synonym Names	ETS domain-containing protein Elk-1
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	ELK1 peptide (MBS8244142) is used for blocking the activity of ELK1 antibody (MBS8242518)
Molecular Weight	11,217 Da
OMIM	311040
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for ELK1 blocking peptide	Blocking (BL)
Application Notes for ELK1 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for ELK1 blocking peptide	MBS8244142 is a blocking peptide targeting ELK1. Also known as ELK1 (pT417) Blocking Peptide. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-ELK1 reactivity.
Other Notes	Small volumes of ELK1 blocking peptide 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 #	12643407
NCBI GeneID	2002
NCBI Accession #	P19419.2
UniProt Primary Accession #	P19419
UniProt Secondary Accession #	O75606; O95058; Q969X8; Q9UJM4; B2R7H4
UniProt Related Accession #	P19419
NCBI Official Full Name	ETS domain-containing protein Elk-1
NCBI Official Synonym Full Names	ELK1, ETS transcription factor
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: cell soma; dendrite; mitochondrion; nerve terminal; nucleoplasm; nucleus Molecular Function: chromatin binding; protein binding; transcription factor activity Biological Process: cell differentiation; innate immune response; MyD88-dependent toll-like receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; nerve growth factor receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; response to light stimulus; stress-activated MAPK cascade; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 3 signaling pathway; toll-like receptor 4 signaling pathway; toll-like receptor 5 signaling pathway; toll-like receptor 9 signaling pathway; toll-like receptor signaling pathway; transcription from RNA polymerase II promoter
Research Articles on ELK1	**1.** interleukin-1beta (IL-1beta)-induced IER3 expression is mediated by the ERK1/2 target, transcription factor Elk-1.
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