



Elk-1 (phospho Thr417) Polyclonal Antibody

Catalog No	YP-Ab-01239
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;IP;ELISA
Gene Name	ELK1
Immunogen	The antiserum was produced against synthesized peptide derived from human Elk1 around the phosphorylation site of Thr417. AA range:379-428
Specificity	Phospho-Elk-1 (T417) Polyclonal Antibody detects endogenous levels of Elk-1 protein only when phosphorylated at T417.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. Immunoprecipitation: 2-5 ug/mg lysate. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	eIF4EBP1 (phospho-T417);p-eIF4EBP1;phospho-eIF4EBP1;eIF4EBP1 (phospho-Thr417);4E-BP1;4EBP1;BP-1;PHAS-I;4EBP1_HUMAN;EIF4EBP1; eIF4E-binding protein 1;Phosphorylated heat- and acid-stable protein regulated by insulin 1 (PHAS-I);4EBP1_MOUSE;4EBP1_RAT;Elk-1;ELK1;ETS domain-containing protein Elk-1
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus.
Tissue Specificity	Lung and testis.
Function	function:Stimulates transcription. Binds to purine-rich DNA sequences. Can form a ternary complex with the serum response factor and the ETS and SRF motifs of the fos serum response element.,PTM: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. Phosphorylation leads to loss of sumoylation and restores



transcriptional activator activity.,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.,similarity:Belongs to the ETS family.,similarity:Contains 1 ETS DNA-binding domain.,subunit:Intera

Background

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],

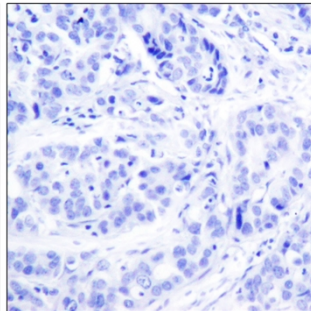
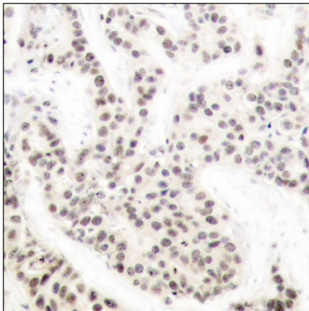
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Elk1 (Phospho-Thr417) Antibody. The picture on the right is blocked with the phospho peptide.