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Product datasheet for AP02548PU-N

ELK1 Rabbit Polyclonal Antibody

Product data:

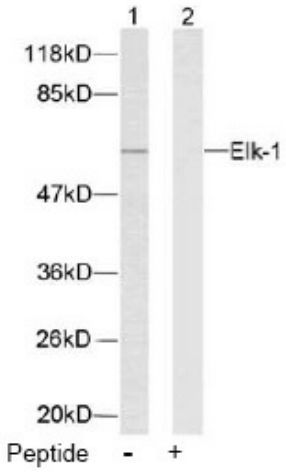
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1:500~1:1000. Immunohistochemistry: 1:50~1:100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human Elk-1 around the phosphorylation site of serine 383 (T-L-SP-P-I).
Specificity:	Elk-1 antibody detects endogenous levels of total Elk-1 protein.
Formulation:	PBS(without Mg2+ and Ca2+), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ELK1, ETS transcription factor
Database Link:	Entrez Gene 2002 Human P19419

View online »

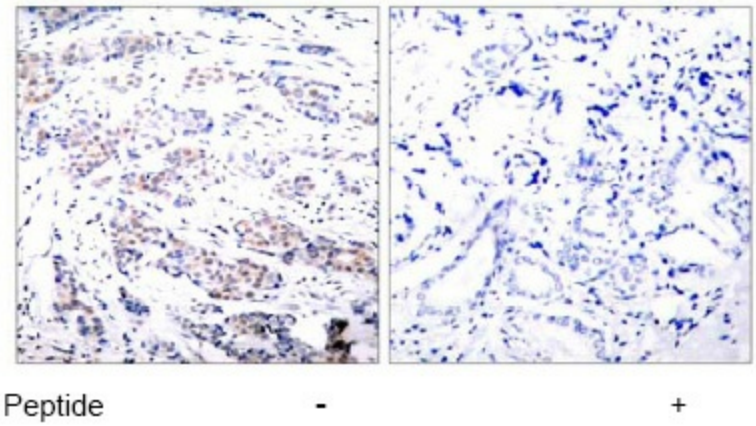
Background: The transcription factor Elk1 is a component of the ternary complex that binds the serum response element (SRE) and mediates gene activity in response to serum and growth factors. Elk1 is phosphorylated by MAP kinase pathways at a cluster of S/T motifs at its C terminus. Phosphorylation at these sites, particularly Ser383, is critical for transcriptional activation by Elk1. Elk1 appears to be a direct target of activated MAP kinase. Biochemical studies indicate that Elk1 is a good substrate for MAP kinase, the kinetics of Elk1 phosphorylation and activation correlate with MAP kinase activity, and interfering mutants of MAP kinase block Elk1 activation in vivo. More recent studies have shown that Elk1 (Ser383) is also a target of the Stress Activated Kinase SAPK/JNK. Phosphorylation of Elk1 has also been implicated in synaptic plasticity in the adult hippocampus.

Synonyms: Elk-1

Product images:



Western blot analysis of extracts from HeLa cells using Elk-1 Antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Elk-1 Antibody.