

Phospho-Elk-1 (Ser383) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Recombinant protein	MW (kDa): 47	Source/Isotype: Rabbit	UniProt ID: #P19419	Entrez-Gene Id: 2002
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Phospho-Elk-1 (Ser383) Antibody detects less than 5 ng of recombinant phosphorylated Elk-1.	
Species predicted to react based on 100% sequence homology	Mouse, Rat, Monkey, Zebrafish, Dog	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser383 of human Elk-1. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The ETS transcription factor Elk-1 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 (1-3). Elk-1 is phosphorylated by MAP kinase pathways at a cluster of S/T motifs at its carboxy terminus; phosphorylation at these sites, particularly Ser383, is critical for transcriptional activation by Elk-1. Elk-1 appears to be a direct target of activated MAP kinase: (a) biochemical studies indicate that Elk-1 is a good substrate for MAP kinase; (b) the kinetics of Elk-1 phosphorylation and activation correlate with MAP kinase activity; (c) interfering mutants of MAP kinase block Elk-1 activation <i>in vivo</i> . Other studies have shown that Elk-1 (Ser383) is also a target of the stress-activated kinase SAPK/JNK (4,5).	
Background References	<ol style="list-style-type: none"> 1. Marais, R. et al. (1993) <i>Cell</i> 73, 381-393. 2. Kortenjann, M. et al. (1994) <i>Mol. Cell. Biol.</i> 14, 4815-4824. 3. Hill, C.S. and Treisman, R. (1995) <i>Cell</i> 80, 199-211. 4. Cavigelli, M. et al. (1995) <i>EMBO J.</i> 14, 5957-5964. 5. Whitmarsh, A.J. et al. (1995) <i>Science</i> 269, 403-407. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting	
Cross-Reactivity Key	H: Human	
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