10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-Ser383 Elk-1 Antibody

Affinity purified rabbit polyclonal antibody
Catalog # AN1009

Specification

Phospho-Ser383 Elk-1 Antibody - Product Information

Application	**WB**
Primary Accession	P19419
Reactivity	**Rat**
Predicted	**Human, Mouse, Monkey, Zebrafish**
Host	**Rabbit**
Clonality	**polyclonal**
Calculated MW	**46 KDa**

Phospho-Ser383 Elk-1 Antibody - Additional Information

Gene ID	**2002**
Gene Name	**ELK1**

Other Names
ETS domain-containing protein Elk-1, ELK1

Target/Specificity
Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser383 conjugated to KLH.

Dilution
WB~~ 1:1000

Format
Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity
Specific for ~46k Elk-1 phosphorylated at Ser383. Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding dephosphopeptide.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-Ser383 Elk-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Phospho-Ser383 Elk-1 Antibody - Protocols

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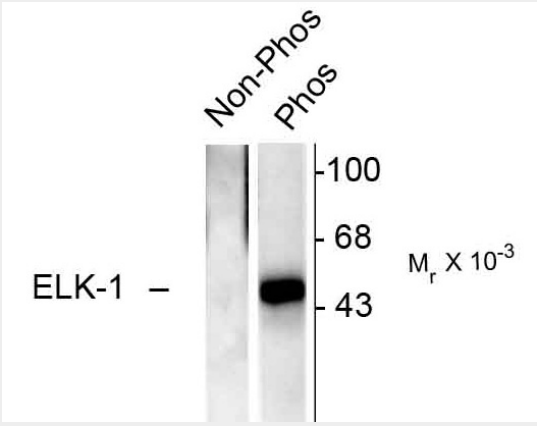
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Ser383 Elk-1 Antibody - Images



Western blot of recombinant Elk-1 showing specific immunolabeling of the ~46k Elk-1 phosphorylated at Ser383 (Phos). The immunolabeling is absent in dephospho-Elk-1 (Non-Phos).

Phospho-Ser383 Elk-1 Antibody - Background

Elk-1 is a transcription factor involved in mediating gene transcription in response to growth factors (Hill and Treisman, 1995). Elk-1 is thought to be phosphorylated by MAP kinase at Ser383 and phosphorylation at this site is essential for the transcriptional activity of Elk-1 (Li et al., 2003). Phosphorylation of Elk-1 has also been implicated in synaptic plasticity in the adult hippocampus (Thiels et al., 2002).

Phospho-Ser383 Elk-1 Antibody - References

Hill CS, Treisman R (1995) Transcriptional regulation by extracellular signals: mechanisms and specificity. Cell 80:199-211.
Li QJ, Yang SH, Maeda Y, Sladek FM, Sharrocks AD. Martins-Green M (2003) MAP kinase phosphorylation-dependent activation of Elk-1 leads to activation of the co-activator p300. EMBO J 22:281-291.
Thiels E, Kanterewicz BI, Norman ED, Trzaskos, JM, Klann E (2002) Long-term depression in the adult hippocampus in vivo involves activation of extracellular signal-regulated kinase and phosphorylation of Elk-1. J Neurosci 22:2054-2062.