PE Mouse anti-Elk-1 (pS383)

**Product Information**

- **Material Number:** 560412
- **Alternate Name:** ELK1
- **Size:** 50 tests
- **Vol. per Test:** 20 µl
- **Clone:** M21-1721
- **Immunogen:** Phosphorylated Human Elk-1 Peptide
- **Isotype:** Mouse (BALB/c) IgG1, κ
- **Reactivity:**
  - Predicted due to immunogen sequence identity: Mouse, Rat
  - QC Testing: Human
- **Storage Buffer:** Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

**Description**

Elk-1 is a 62-kDa member of the Ets oncogene family of transcription factors and a member of the subfamily of ternary complex factors (TCF). Ets proteins mediate a variety of gene activities in response to serum and growth factors. Proteins in the TCF subfamily form a ternary complex by binding to the Serum Response Element (SRE) in conjunction with a dimer of Serum Response Factors (SRF). Elk-1 is phosphorylated by mitogen-activated protein (MAP) kinase pathways in vivo at a cluster of S/T motifs at its carboxy-terminus.

Phosphorylation at these sites, particularly at serine 383 (S383), is critical for Elk-1 transcriptional activation. Studies have shown that Elk-1 is a direct target of activated MAP kinase, and that it is also a target of the stress-activated kinase SAPK/JNK.

The M21-1721 monoclonal antibody recognizes the phosphorylated S383 of activated Elk-1. The orthologous phosphorylation sites of mouse and rat Elk-1 are S384 and S382, respectively.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

**Western blot analysis of Elk-1 (pS383).** The specificity of mAb M21-1721 was confirmed by western blot analysis using unconjugated Mouse anti-Elk-1 (pS383) antibody on lysates from PBMC that were cultured with PHA for 3 days (lane 1) or PBMC that were cultured with PHA for 3 days and then treated with PMA for 15 minutes (lane 2). Elk-1 (pS383) is identified as a band of 62 kDa in the PMA-treated cells.
**Application Notes**

**Application**

| Intracellular staining (flow cytometry) | Routinely Tested |

**Recommended Assay Procedure:**

This antibody conjugate is suitable for intracellular staining of human peripheral blood mononuclear cells using BD Cytofix™ Fixation Buffer. Any of the three BD Phosflow™ permeabilization buffers may be used.

**Suggested Companion Products**

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
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<tr>
<td>554655</td>
<td>Fixation Buffer</td>
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<td>557885</td>
<td>Perm/Wash Buffer I</td>
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<td>558050</td>
<td>Perm Buffer III</td>
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**Product Notices**

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
4. Ficoll-Paque is a trademark of Amersham Biosciences Limited.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

**References**


