**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human IkB-α when phosphorylated at S32/36.

**Source**  
Polyclonal Rabbit IgG

**Purification**  
Antigen Affinity-purified

**Immunogen**  
Phosphopeptide containing human IkB-α S32/36 sites

**Formulation**  
Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. **General Protocols** are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
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**DATA**

**Western Blot**

Detection of Human Phospho-IkB-α (S32/S36) by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line untreated (-) or treated (+) with 20 ng/mL Recombinant Human TNF-α (Catalog # 210-TA) for 5 minutes. PVDF membrane was probed with 1 μg/mL Rabbit Anti-Human Phospho-IkB-α (S32/S36) Antibody followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-IkB-α (S32/S36) at approximately 44 kDa (as indicated). For additional reference, duplicate lysates were probed with 0.1 μg/mL Human IkB-α Monoclonal Antibody (lower panel, Catalog # MAB4299). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

NFkB inhibitor alpha (IkB-α) inhibits the NFkB complex by binding and sequestering it in the cytoplasm. Upon stimulation, IkB-α is phosphorylated on serine residues 32 and 36 marking it for degradation by the ubiquitin pathway. Following IkB-α degradation, the NFkB complex is able to translocate to the nucleus and activate transcription.