Product Datasheet

IkB-alpha Antibody (6A920)
NB100-56507

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Publications: 33

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Updated 11/4/2018 v.20.1

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# NB100-56507
IkB-alpha Antibody (6A920)

## Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Concentration</td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>6A920</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1 Kappa</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein G purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS</td>
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## Product Description

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td>Host</td>
<td>Mouse</td>
</tr>
<tr>
<td>Gene ID</td>
<td>4792</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>NFKBIA</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Rat reactivity reported in the scientific literature (PMID: 23840265).</td>
</tr>
<tr>
<td>Specificity/Sensitivity</td>
<td>A 40 kDa band is observed.</td>
</tr>
<tr>
<td>Immunogen</td>
<td>A recombinant protein corresponding to amino acid residues 32-291 of human IkBa was used as immunogen.</td>
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</table>

## Product Application Details

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready, Knockout Validated</td>
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<tr>
<td>Recommended Dilutions</td>
<td>Western Blot 1-2 ug/ml, Simple Western 1:20, Flow Cytometry 0.25-1 ug/10^6 cells, Immunohistochemistry 1:20-1:1000, Immunocytochemistry/Immunofluorescence 1:20-1:1000, Immunoprecipitation 1 ug/ml, Immunohistochemistry-Paraffin 1:100, CyTOF-ready, Knockout Validated</td>
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<tr>
<td>Application Notes</td>
<td>In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. Separated by Size. This antibody is CyTOF ready.</td>
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</table>

## Images

Knockout Validated: IkB-alpha Antibody (6A920) [NB100-56507] - Western blot shows lysates of HEK293 human embryonic kidney parental cell line and IkB-alpha knockout (KO) HEK293 human embryonic kidney cell line. PVDF membrane was probed with 2 ug/ml of Mouse Anti-Human IkB-alpha monoclonal Antibody (Catalog # NB100-56507) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for IkB-alpha at approximately 38 kDa (as indicated) in the parental HEK293 cell line, but is not detectable in the knockout HEK293 cell line. This experiment was conducted under reducing conditions.
Western Blot: IkB-alpha Antibody (6A920) [NB100-56507] - Lysates of Jurkat human acute T cell leukemia cell line, LNCaP human prostate cancer cell line, PCx2011;3 human prostate cancer cell line, HeLa human cervical epithelial carcinoma cell line, and NIHx2011;3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.5 ug/mL mouse anti-IkB-a monoclonal (NB100-56507, Novus Biologicals), followed by 1:2000 dilution of the appropriate HRP-conjugated secondary antibody, donkey anti-mouse IgG (HAF018).

Immunohistochemistry-Paraffin: IkB-alpha Antibody (6A920) [NB100-56507] - Human breast probed with IkBa antibody at 5 ug/ml. Human tissue TMA was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.

Flow Cytometry: IkB-alpha Antibody (6A920) [NB100-56507] - Intracellular staining of 10^6 ThP-1 cells using 0.25 ug of NB100-56507. Shaded histogram represents cells alone, green represents the isotype control, and red represents the IkBa antibody. Novus's intracellular flow kit was used for this test, and an anti-mouse IgG FITC conjugated secondary.

Western Blot: IkB-alpha Antibody (6A920) [NB100-56507] - IkBa using NB100-56507 at 2 ug/ml in (A) Daudi and (B) NIH 3T3 whole cell lysate.
Western Blot: IκB-alpha Antibody (6A920) [NB100-56507] - Jurkat cells were treated for 30 min with 100 ug/ml ALLN (N-Acetyl-Leu-Leu-Norleucinal; a Calpain inhibitor and also proteasome inhibitor that prevents IκBα dephosphorylation) followed by incubation with (lanes 2 & 4) or without 1 nM TNF-α (1 & 3). The membranes were blotted with NB100-56724 (lanes 1 & 2) or NB100-56507 (that recognizes both non-phospho and phosphorylated forms of IκBα) and immunoreactivity was detected by ECL. The data shows that NB100-56724 detects specifically the phosphorylated form of IκBα.

Simple Western: IκB-alpha Antibody (6A920) [NB100-56507] - Simple Western lane view shows a specific band for IκB alpha in 0.5 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.
<table>
<thead>
<tr>
<th>Publication</th>
<th>PMID</th>
<th>Details</th>
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<tbody>
<tr>
<td>Tomasi ML, Ramani K, Ryoo M. Ubiquitin-Conjugating Enzyme 9 Phosphorylation as a Novel Mechanism for Potentiation of the Inflammatory Response. Am. J. Pathol. Sep 1 2016 12:00AM</td>
<td>27561301</td>
<td>(WB)</td>
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<tr>
<td>Gao Q, Liu Y, Wu Y et al. IL-17 intensifies IFN-gamma-induced NOS2 upregulation in RAW 264.7 cells by further activating STAT1 and NF-kB Int. J. Mol. Med. 2015 Dec 11</td>
<td>26677135</td>
<td>(WB, Mouse)</td>
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<tr>
<td>Details:</td>
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<tr>
<td>WB (human MoDC stimulated with LPS, R848, and poly(I:C)), Fig. 8b.</td>
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<td>WB (mouse LPS-stimulated Raw 264.7 macrophages), Fig. 1.</td>
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<td>Details:</td>
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<tr>
<td>WB (WSN-infected A549 human pulmonary cells), Fig. 1a bottom</td>
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<tr>
<td>More publications at <a href="http://www.novusbio.com/NB100-56507">http://www.novusbio.com/NB100-56507</a></td>
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**Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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