

# Product Datasheet

## I $\kappa$ B-alpha Antibody (6A920) - Azide and BSA Free NBP2-80787

Unit Size: 0.1 mg

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

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**NBP2-80787**I $\kappa$ B-alpha Antibody (6A920) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6A920
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse I $\kappa$ B-alpha Antibody (6A920) - Azide and BSA Free (NB100-56507) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF, Simple Western and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4792
Gene Symbol	NFKBIA
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in the scientific literature (PMID: 23840265).
Immunogen	A recombinant protein corresponding to amino acid residues 32-291 of human I $\kappa$ B $\alpha$ was used as immunogen.
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, CyTOF-ready, Knockout Validated
Recommended Dilutions	Western Blot 1-2 ug/ml, Simple Western 1:20, Flow Cytometry 0.25-1 ug/10 <sup>6</sup> cells, Immunohistochemistry 1:20-1:1000, Immunocytochemistry/ Immunofluorescence 1:20-1:1000, Immunoprecipitation 1 ug/ml, Immunohistochemistry-Paraffin 1:100, CyTOF-ready, Knockout Validated
Application Notes	In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: antibody dilution of 1:20. This antibody is CyTOF ready.

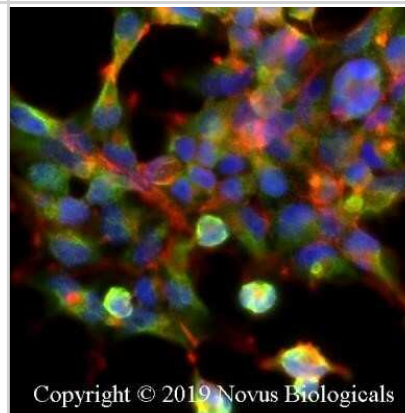


## Images

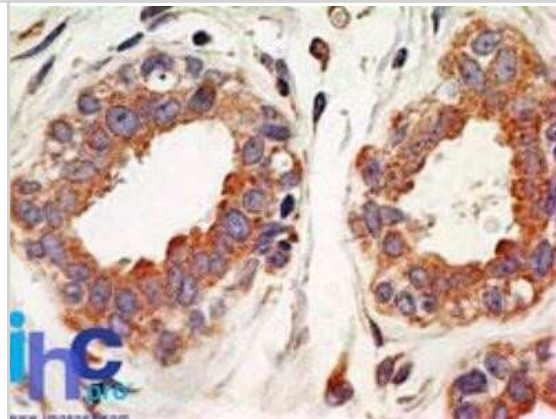
Western Blot: IκB-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - Lysates of Jurkat human acute T cell leukemia cell line, LNCaP human prostate cancer cell line, PCx2011;3 human prostate cancer cell line, HeLa human cervical epithelial carcinoma cell line, and NIHx2011;3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.5 ug/mL mouse anti-IκB-a monoclonal (NB100-56507, Novus Biologicals), followed by 1:2000 dilution of the appropriate HRP-conjugated secondary antibody, donkey anti-mouse IgG. Image from the standard format of this antibody.



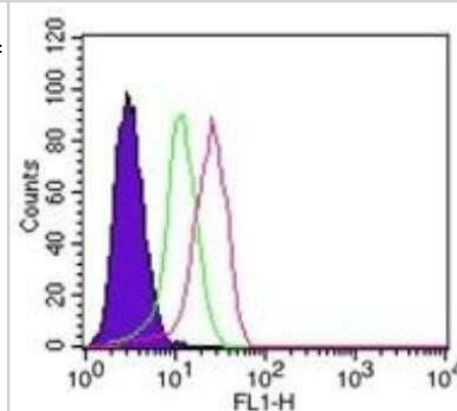
Immunocytochemistry/Immunofluorescence: IκB-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - Hek293 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-IκB-alpha (6A920) at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



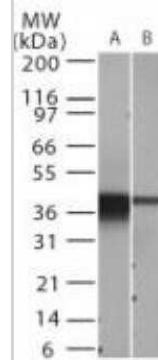
Immunohistochemistry: IκB-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - Human breast probed with IκBa antibody at 5 ug/ml. Human tissue TMA was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min



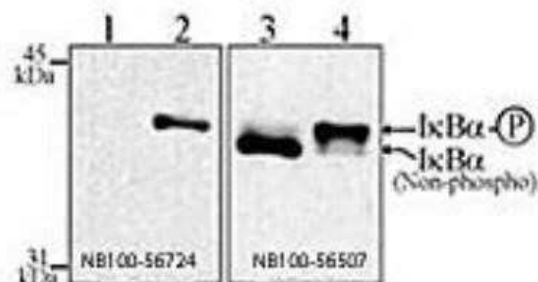
Flow Cytometry: IκB-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - Intracellular staining of 10<sup>6</sup> ThP-1 cells using 0.25 ug of NB100-56507. Shaded histogram represents cells alone, green represents the isotype control, and red represents the IκBa antibody. Novus's intracellular flow kit was used for this test, and an anti-mouse IgG FITC conjugated secondary. Image from the standard format of this antibody.



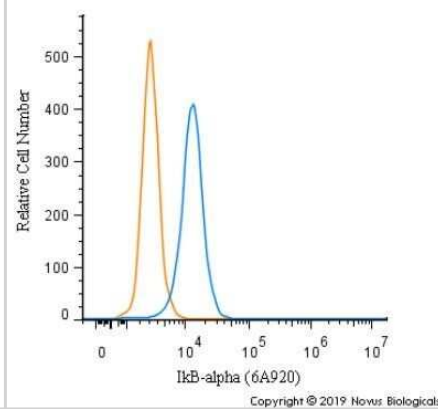
Western Blot: I $\kappa$ B-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - I $\kappa$ B $\alpha$  using NB100-56507 at 2  $\mu$ g/ml in (A) Daudi and (B) NIH 3T3 whole cell lysate. Image from the standard format of this antibody.



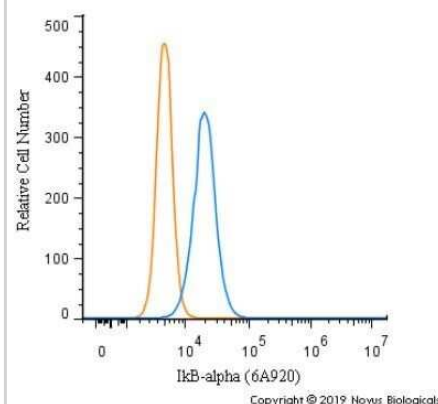
Western Blot: I $\kappa$ B-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - Jurkat cells were treated for 30 min with 100  $\mu$ g/ml ALLN (N-Acetyl-Leu-Leu-Norleucinal; a Calpain inhibitor and also proteasome inhibitor that prevents I $\kappa$ B $\alpha$  dephosphorylation) followed by incubation with (lanes 2 & 4) or without 1 nM TNF- $\alpha$  (1 & 3). The membranes were blotted with NB100-56724 (lanes 1 & 2) or NB100-56507 (that recognizes both non-phospho and phosphorylated forms of I $\kappa$ B $\alpha$ ) and immunoreactivity was detected by ECL. The data shows that NB100-56724 detects specifically the phosphorylated form of I $\kappa$ B $\alpha$ . Image from the standard format of this antibody.



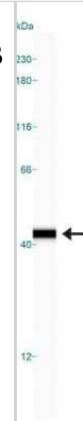
Flow Cytometry: I $\kappa$ B-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - An intracellular stain was performed on Hek293 cells with I $\kappa$ B-alpha Antibody [6A920] NB100-56507 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0  $\mu$ g/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550. Image from the standard format of this antibody.



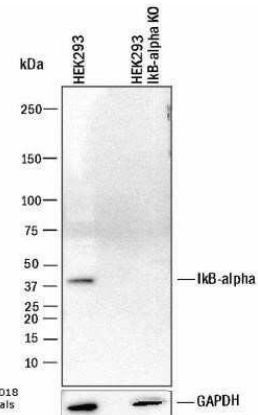
Flow Cytometry: I $\kappa$ B-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - An intracellular stain was performed on NIH3T3 cells with I $\kappa$ B-alpha Antibody [6A920] NB100-56507 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0  $\mu$ g/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550. Image from the standard format of this antibody.



Simple Western: IκB-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - 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. Image from the standard format of this antibody.



Western Blot: IκB-alpha Antibody (6A920) - Azide and BSA Free [NBP2-80787] - Western blot shows lysates of HEK293 human embryonic kidney parental cell line and IκB-alpha knockout (KO) HEK293 human embryonic kidney cell line. PVDF membrane was probed with 2 ug/ml of Mouse Anti-Human IκB-alpha monoclonal Antibody (Catalog # NB100-56507) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody. Specific band was detected for IκB-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. Image from the standard format of this antibody.





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### **Products Related to NBP2-80787**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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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