

# Product Datasheet

## IKK beta Antibody (10A9B6) - BSA Free NB100-56513

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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**NB100-56513**

IKK beta Antibody (10A9B6) - BSA Free

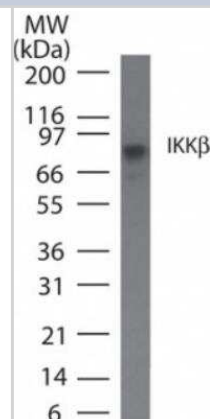
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	10A9B6
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	3551
Gene Symbol	IKKBK
Species	Human, Mouse
Immunogen	Full-length human IKKb/IKK2 recombinant protein was used as immunogen (NP_001547).

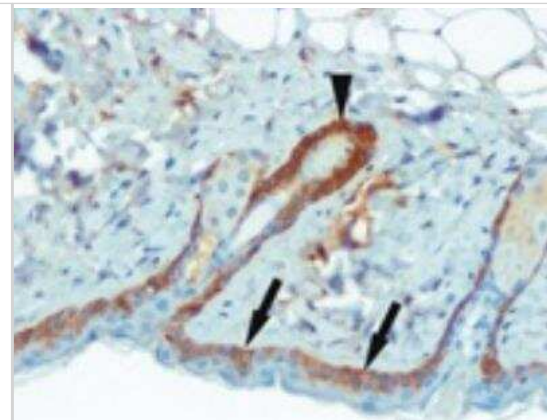
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Flow (Intracellular), Gel Super Shift Assays, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 2 - 5 ug/mL, Simple Western 1:12.5, Flow Cytometry 1:10 - 1:1000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence reported in scientific literature (PMID 24825920), Immunoprecipitation 2 - 5 ug / 10 <sup>6</sup> cells, Immunohistochemistry-Frozen reported by customer review, Gel Super Shift Assays reported in scientific literature (PMID 19662631), Flow (Intracellular)
Application Notes	An approx. 87 kDa band should be observed. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

**Images**

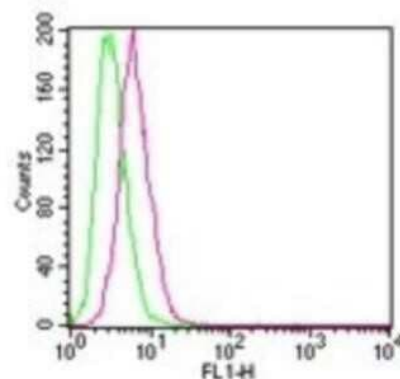
Western Blot: IKK beta Antibody (10A9B6) [NB100-56513] - IKK beta in Daudi cell lysate using IKK beta antibody at 5 ug/ml.



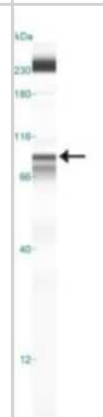
Immunohistochemistry-Frozen: IKK beta Antibody (10A9B6) [NB100-56513] - Mouse skin tissue section stained with IKK beta antibody. IHC-Fr image submitted by a verified customer review.



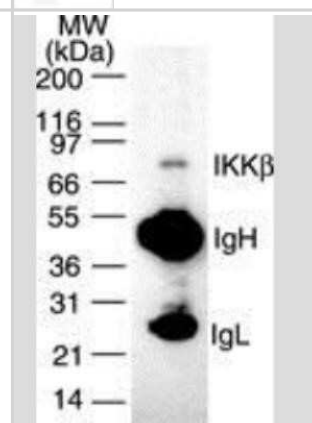
Flow (Intracellular): IKK beta Antibody (10A9B6) [NB100-56513] - Analysis using the Alexa Fluor (R) 488 conjugate. Staining of IKK in HEK 293 cells using 0.1 ug of this antibody. Green histogram represents the isotype control, red represents the IKK antibody. Image using the Azide Free format of this antibody.



Simple Western: IKK beta Antibody (10A9B6) [NB100-56513] - Analysis using Azide Free version of NB100-56513. Lane view shows a specific band for IKK beta in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. \*Non-specific interaction with the



Immunoprecipitation: IKK beta Antibody (10A9B6) [NB100-56513] - Antibody was used to immunoprecipitate IKKb from  $1 \times 10^6$  Daudi cells and the immuno-precipitated protein was detected by western blotting using NB100-56509. IKKb was detected as a protein of ~87 kD. Image using the Azide Free format of this antibody.



## Publications

Yang Gong, Rosen Daniel G, Liu Guangzhi et al. CXCR2 promotes ovarian cancer growth through dysregulated cell cycle, diminished apoptosis, and enhanced angiogenesis. *Clin Cancer Res.* 2010-08-01 [PMID: 20505188] (WB)

Monsalve Eva, Ruiz-Garcia Almudena, Baladron Victoriano et al. Notch1 upregulates LPS-induced macrophage activation by increasing NF-kappaB activity. *Eur J Immunol.* 2009-09-01 [PMID: 19662631] (EMSA)

Vacca Alessandra, Felli Maria Pia, Palermo Rocco et al. Notch3 and pre-TCR interaction unveils distinct NF-kappaB pathways in T-cell development and leukemia. *EMBO J.* 2006-03-08 [PMID: 16498412] (Mouse)

Tare Nadine, Li Hongli, Morschauser Andrew et al. KU812 cells provide a novel in vitro model of the human IL-33/ST2L axis: functional responses and identification of signaling pathways. *Exp Cell Res.* 2010-09-10 [PMID: 20406635] (WB, Human)

Paul S, Traver MK, Kashyap AK et al. T Cell Receptor Signals to NF-kB Are Transmitted by a Cytosolic p62-Bcl10-Malt1-Ikk Signalosome. *Sci Signal.* 2014-05-14 [PMID: 24825920] (ICC/IF, Mouse)

Details:

D10 mouse T-helper cells, Fig S1B

Lamothe B, Campos AD, Webster WK et al. The RING domain and first zinc finger of TRAF6 coordinate signaling by interleukin-1, lipopolysaccharide, and RANKL. *J Biol Chem.* 2008-09-05 [PMID: 18617513]

Fitzgerald KA, McWhirter SM, Faia KL et al. IKKepsilon and TBK1 are essential components of the IRF3 signaling pathway. *Nat Immunol.* 2003-05-01 [PMID: 12692549] (WB)

Bakkar N, Ladner K, Canan BD et al. IKKa and alternative NF-kB regulate PGC-1B to promote oxidative muscle metabolism. *J Cell Biol.* 2012-02-20 [PMID: 22351927]

Scott MJ, Billiar TR. Beta2-integrin-induced p38 MAPK activation is a key mediator in the CD14/TLR4/MD2-dependent uptake of lipopolysaccharide by hepatocytes. *J Biol Chem.* 2008-10-24 [PMID: 18701460]

Details:

1. MyD88 (IMG-2005): MyD88 peptide inhibition (mouse WT hepatocytes), Figs. 4A,D. 2. TIRAP (IMG-2006): TIRAP peptide inhibition (mouse WT hepatocytes), Figs. 4B,D; 5B; 6E.



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### **Products Related to NB100-56513**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB100-56513APC	IKK beta Antibody (10A9B6) [Allophycocyanin]

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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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