

# Product Datasheet

## IRAK4 Antibody - BSA Free

### NB500-597-0.1mg

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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IRAK4 Antibody - BSA Free

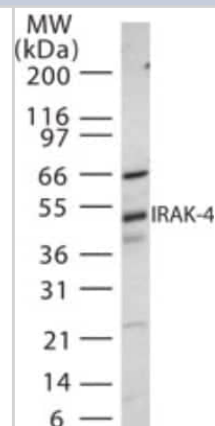
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	51135
Gene Symbol	IRAK4
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in multiple pieces of scientific literature
Immunogen	This antibody was developed against a mixture of synthetic peptides containing amino acids 38-54 and 120-136 of mouse IRAK-4.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000 - 1:2000, Flow Cytometry, Immunoprecipitation
Application Notes	Immunoprecipitation: see Pacquelet et al (2007) for details.

**Images**

Western Blot: IRAK4 Antibody [NB500-597] - Analysis of IRAK-4 in 30 ugs of NIH 3T3 cell lysate using this antibody at 1:500 dilution.



## Publications

Pereira, M;Ramalho, T;Andrade, WA;Durso, DF;Souza, MC;Fitzgerald, KA;Golenbock, DT;Silverman, N;Gazzinelli, RT; The IRAK1/IRF5 axis initiates IL-12 response by dendritic cells and control of Toxoplasma gondii infection Cell reports 2024-02-15 [PMID: 38367238]

Li , Wang H, Li Z et al. The inhibition of RANKL expression in fibroblasts attenuate CoCr particles induced aseptic prosthesis loosening via the MyD88-independent TLR signaling pathway. Biochem. Biophys. Res. Commun. 2018-06-25 [PMID: 29940143] (WB, Human)

Valencia Pacheco GJ, Pinzon Herrera F, Cruz Lopez JJ et al. Expression and activation of intracellular receptors TLR7, TLR8 and TLR9 in peripheral blood monocytes from HIV-infected patients. Colomb Med (Cali). 2013-06-30 [PMID: 24892454] (WB)

Chen Yong, Liu Haizhong, Liu Zuojin et al. Blockade of inducible costimulator pathway to prevent acute rejection in rat liver transplantation. Am J Surg. 2009-08-01 [PMID: 19628063] (Rat)

Liu Zuo-jin, Yan Lu-nan, Li Shen-wei et al. Glycine blunts transplantative liver ischemia-reperfusion injury by downregulating interleukin 1 receptor associated kinase-4. Acta Pharmacol Sin. 2006-11-01 [PMID: 17049125] (WB, Rat)

Xu Fa Liang, You Hai Bo, Li Xu Hong et al. Glycine attenuates endotoxin-induced liver injury by downregulating TLR4 signaling in Kupffer cells. Am J Surg. 2008-07-01 [PMID: 18565339] (Mouse)

Lee YS, Park JS, Jung SM et al. Inhibition of lethal inflammatory responses through the targeting of membrane-associated Toll-like receptor 4 signaling complexes with a Smad6-derived peptide EMBO Mol Med 2015-03-12 [PMID: 25766838] (WB, Mouse)

Pathak SK, Basu S, Basu KK et al. Direct extracellular interaction between the early secreted antigen ESAT-6 of Mycobacterium tuberculosis and TLR2 inhibits TLR signaling in macrophages. Nat Immunol. 2007-06-01 [PMID: 17486091]

Choi KC, Lee YS, Lim S et al. Smad6 negatively regulates interleukin 1-receptor-Toll-like receptor signaling through direct interaction with the adaptor Pellino-1. Nat Immunol. 2006-10-01 [PMID: 16951688]

Hatao F, Muroi M, Hiki N et al. Prolonged Toll-like receptor stimulation leads to down-regulation of IRAK-4 protein. J Leukoc Biol. 2004-10-01 [PMID: 15258191] (WB)

Asehnoune K, Strassheim D, Mitra S et al. Involvement of reactive oxygen species in Toll-like receptor 4-dependent activation of NF-kappa B. J Immunol. 2004-02-15 [PMID: 14764725]

Pacquelet S, Johnson JL, Ellis BA et al. Cross-talk between IRAK-4 and the NADPH oxidase. Biochem J. 2007-05-01 [PMID: 17217339]

More publications at <http://www.novusbio.com/NB500-597>



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### **Products Related to NB500-597-0.1mg**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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