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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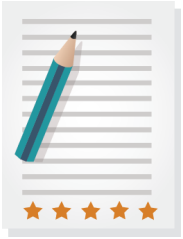
Publications: 13

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB500-597

Updated 9/9/2025 v.20.1



NB500-597-0.1mg

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

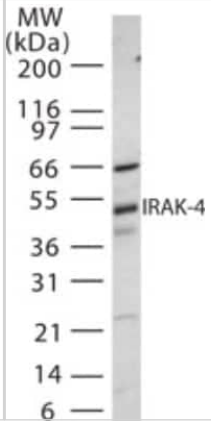
Description	Novus Biologicals Rabbit IRAK4 Antibody - BSA Free (NB500-597) is a polyclonal antibody validated for use in WB, Flow and IP. Anti-IRAK4 Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51135
Gene Symbol	IRAK4
Species	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

NB800-PC8	NIH 3T3 Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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