

Product Datasheet

IRAK1 Antibody - BSA Free

NBP1-77068

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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Updated 3/4/2026 v.20.1

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NBP1-77068

IRAK1 Antibody - BSA Free

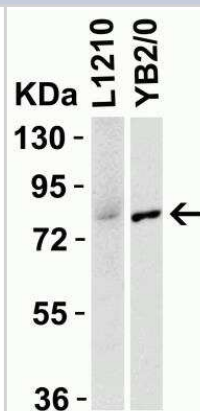
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	77 kDa

Product Description	
Host	Rabbit
Gene ID	3654
Gene Symbol	IRAK1
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (85%)
Specificity/Sensitivity	At least four isoforms of IRAK1 are known to exist; this antibody will detect all four isoforms. IRAK1 antibody is predicted to not cross-react with other members of the IRAK protein family.
Immunogen	Antibody was raised against a peptide corresponding to 13 amino acids near the carboxy terminus of human IRAK. The immunogen is located within the last 50 amino acids of IRAK. Amino Acid Sequence: DRQGPEESDEFQS

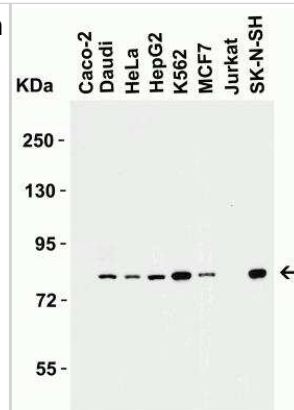
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1-4 ug/mL, ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence 10-20 ug/mL, Immunoprecipitation 1:10-1:500

Images

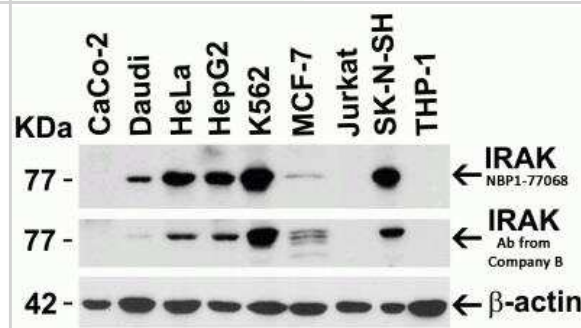
Western Blot: IRAK1 Antibody [NBP1-77068] - Species Activity in Mouse and Rat Cell Lines. Loading: 15 ug of lysates per lane. Antibodies: IRAK1 NBP1-77068 (1 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



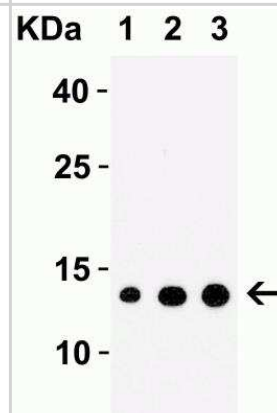
Western Blot: IRAK1 Antibody [NBP1-77068] - Western Blot Validation in Human Cell Lines. Loading: 15 ug of lysates per lane. Antibodies: IRAK NBP1-77068 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



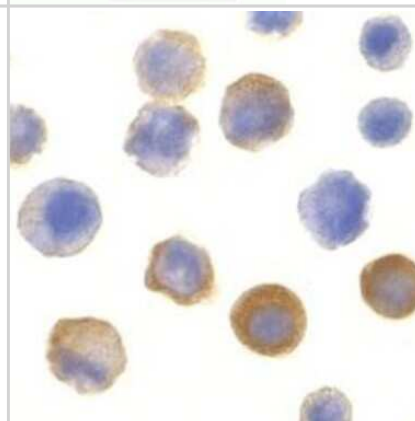
Western Blot: IRAK1 Antibody [NBP1-77068] - Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines. Loading: 15 ug of lysates per lane. Antibodies: IRAK NBP1-77068 (1 ug/mL), IRAK from Company B (2 ug/mL), beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot: IRAK1 Antibody [NBP1-77068] - Western Blot Validation with Recombinant Protein. Loading: 30 ng of human IRAK recombinant protein per lane. Antibodies: IRAK NBP1-77068 (1: 1ug/mL, 2: 2 ug/mL and 3: 4 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

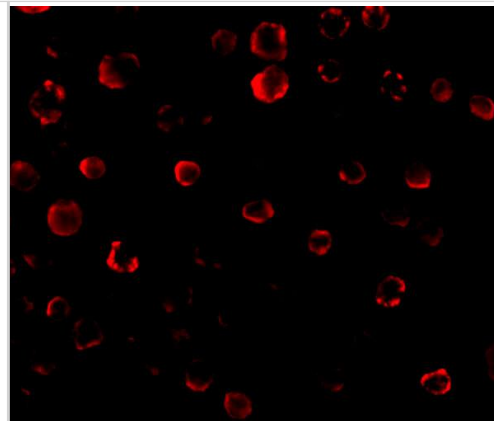


Immunocytochemistry/Immunofluorescence: IRAK1 Antibody [NBP1-77068] - Immunocytochemistry Validation of IRAK in Human HeLa Cells. Immunocytochemical analysis of HeLa cells using anti-IRAK antibody (NBP1-77068) at 10 ug g/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunocytochemistry/ Immunofluorescence: IRAK1 Antibody - BSA Free [NBP1-77068] - **Figure 5 Immunofluorescence Validation of IRAK1 in Human HeLa Cells**

Immunofluorescent analysis of 4% paraformaldehyde-fixed HeLa Cells labeling IRAK1 with at 20 u/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



Publications

FIUmann R, RehkAmper T, Nieper P Et al. An Autochthonous Mouse Model of Myd88- and BCL2-Driven Diffuse Large B-cell Lymphoma Reveals Actionable Molecular Vulnerabilities Blood Cancer Discov 2021-01-15 [PMID: 33447829] (PLA, Mouse)

Details:

Citation using the HRP version of this antibody.

Chen XX, Tang L, Fu YM et al. Paralemmin-3 contributes to lipopolysaccharide-induced inflammatory response and is involved in lipopolysaccharide-Toll-like receptor-4 signaling in alveolar macrophages. Int. J. Mol. Med. 2017-09-28 [PMID: 29039447] (Rat)



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Products Related to NBP1-77068

NBP1-77068PEP	IRAK1 Antibody Blocking Peptide
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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