

IRAK1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Non-human primate
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues surrounding glycine 696 of human IRAK1
Form	Liquid
Concentration	26.4 µg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10984291

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunocytochemistry (ICC/IF)	1:50	1 Publication

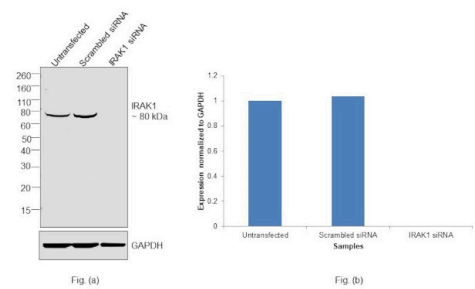
Product Specific Information

It is not recommended to aliquot this antibody.

Product Images For IRAK1 Polyclonal Antibody

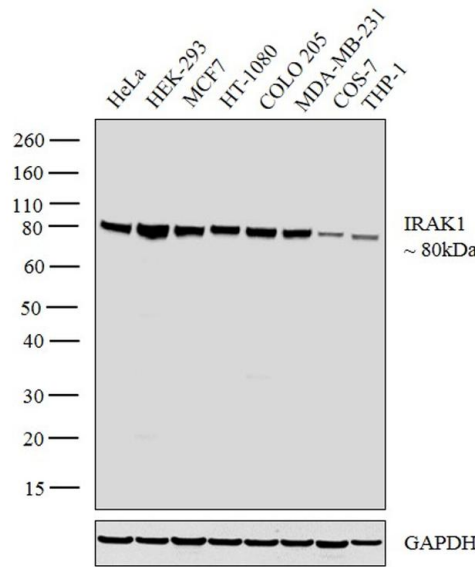
IRAK1 Antibody (PA5-17490)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. K-562 cells were transfected with Interleukin-1 receptor-associated kinase 1 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-IRAK1 Polyclonal Antibody (Product # PA5-17490). {KD}



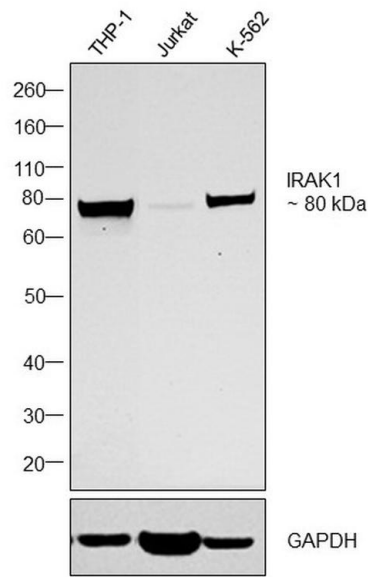
IRAK1 Antibody (PA5-17490) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), HEK-293 (Lane 2), MCF7 (Lane 3), HT-1080 (Lane 4), COLO 205 (Lane 5), MDA-MB-231 (Lane 6), COS-7 (Lane 7) and THP-1 (Lane 8). The blot was probed with Anti-IRAK1 Polyclonal Antibody (Product # PA5-17490, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). An 80kDa band corresponding to IRAK1 was observed across all the cell lines tested.



IRAK1 Antibody (PA5-17490) in WB

Western blot was performed using Anti-IRAK1 Polyclonal Antibody (Product # PA5-17490) and a 80 kDa band corresponding to Interleukin-1 receptor-associated kinase 1 was observed across tested cell lines. Whole cell extracts (40 µg lysate) of THP-1 (Lane 1), Jurkat (Lane 2), K-562 (Lane 3) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:20000 dilution) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Pico PLUS Chemiluminescent Substrate (Product # 34580).



3 References

Western Blot (2)

<p>The Journal of biological chemistry</p> <p>Viperin interacts with the kinase IRAK1 and the E3 ubiquitin ligase TRAF6, coupling innate immune signaling to antiviral ribonucleotide synthesis.</p> <p>"PA5-17490 was used in Immunocytochemistry-immunoflourescence to conclude that the synergistic activation of viperin and IRAK1 provides a mechanism that couples innate immune signaling with the production of the antiviral nucleotide ddhCTP."</p> <p>Authors: Dumbrepatil AB,Ghosh S,Zegalia KA,Malec PA,Hoff JD,Kennedy RT,Marsh ENG</p>	<p>Year 2019</p> <p>Species Human</p> <p>Dilution 1:250</p>
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<p>PLoS pathogens</p> <p>Human Cytomegalovirus miR-UL112-3p Targets TLR2 and Modulates the TLR2/IRAK1/NFB Signaling Pathway.</p> <p>"Published figure using IRAK1 polyclonal antibody (Product # PA5-17490) in Western Blot"</p> <p>Authors: Landais I,Pelton C,Streblow D,DeFilippis V,McWeeney S,Nelson JA</p>	<p>Year 2015</p> <p>Species Human</p>
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Immunocytochemistry (1)

<p>The Journal of biological chemistry</p> <p>Viperin interacts with the kinase IRAK1 and the E3 ubiquitin ligase TRAF6, coupling innate immune signaling to antiviral ribonucleotide synthesis.</p> <p>"PA5-17490 was used in Immunocytochemistry-immunoflourescence to conclude that the synergistic activation of viperin and IRAK1 provides a mechanism that couples innate immune signaling with the production of the antiviral nucleotide ddhCTP."</p> <p>Authors: Dumbrepatil AB,Ghosh S,Zegalia KA,Malec PA,Hoff JD,Kennedy RT,Marsh ENG</p>	<p>Year 2019</p> <p>Species Human</p> <p>Dilution 1:250</p>
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