

HSP70 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 308 and 641 of Human HSP70 1A
Form	Liquid
Concentration	0.45 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2545479

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:30000	5 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
Immunoprecipitation (IP)	1:500-1:1,000	1 Publication

Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, Mouse brain, rat brain.

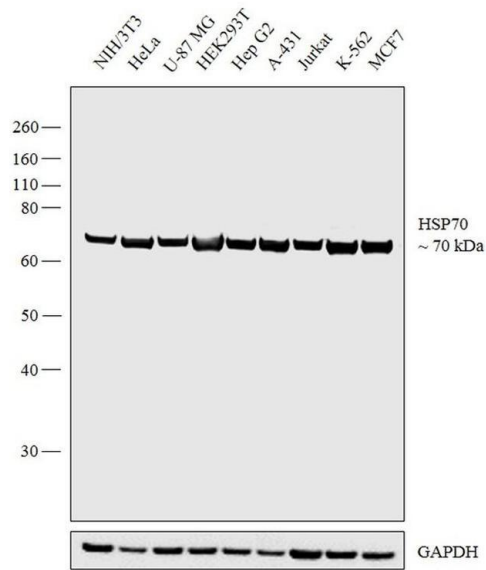
Predicted reactivity: Mouse (94%), Rat (95%), Xenopus laevis (82%), Sheep (98%), Bovine (98%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For HSP70 Polyclonal Antibody

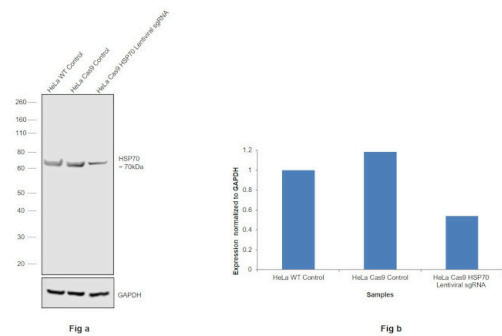
HSP70 Antibody (PA5-28003) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of NIH /3T3 (Lane 1), HeLa (Lane 2), U-87 MG (Lane 3), HEK293T (Lane 4), Hep G2 (Lane 5), A-431 (Lane 6), Jurkat (Lane 7), K-562 (Lane 8) and MCF7 (Lane 9). The blot was probed with Anti-HSP70 Polyclonal Antibody (Product # PA5-28003, 1 µg/mL) 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). A 70 kDa band corresponding to HSP70 was observed across the cell lines tested.



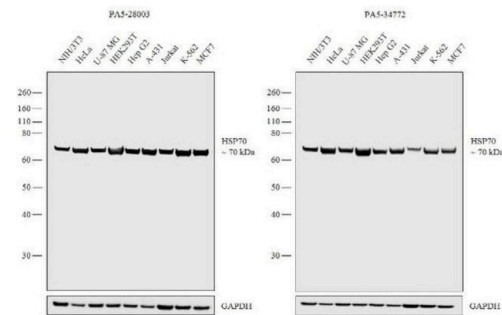
HSP70 Antibody (PA5-28003)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A reduced signal was observed for target protein in HeLa Cas9 cell line transduced with HSP70 Lentiviral sgRNA compared to control cell line using Anti-HSP70 Polyclonal Antibody (Product # PA5-28003). {KO}



HSP70 Antibody (PA5-28003)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Western blot of HSP70 using HSP70 Polyclonal Antibody (Product # PA5-28003), tested in parallel with HSP70 Polyclonal Antibody (Product # PA5-34772), show similar expression of HSP70 in the cell lines tested. {IAV}



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Western Blot (5)

<p>Life sciences</p> <p>Allosteric activation of Hsp70 reduces mutant huntingtin levels, the clustering of N-terminal fragments, and their nuclear accumulation.</p> <p>"PA5-28003 was used in Immunoprecipitation to show that the strategy of allosteric Hsp70 activation holds potential for HD."</p> <p>Authors: Pinho BR,Almeida LM,Duchen MR,Oliveira JMA</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:3000</p>
<p>The Journal of clinical investigation</p> <p>Exosomes mediate sensory hair cell protection in the inner ear.</p> <p>"PA5-28003 was used in Western Blotting to investigate the mechanisms underlying non-cell-autonomous protective signaling in the inner ear."</p> <p>Authors: Breglio AM,May LA,Barzik M,Welsh NC,Francis SP,Costain TQ,Wang L,Anderson DE,Petralia RS,Wang YX,Friedman TB,Wood MJ,Cunningham LL</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:500</p>

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Immunohistochemistry (1)

<p>eLife</p> <p>Novel cell types and developmental lineages revealed by single-cell RNA-seq analysis of the mouse crista ampullaris.</p> <p>"PA5-28003 was used in Immunohistochemistry-immunofluorescence to provide transcriptomic characterization of the cells of the crista ampullaris, sensory structures at the base of the semicircular canals that are critical for vestibular function."</p> <p>Authors: Wilkerson BA,Zebroski HL,Finkbeiner CR,Chitsazan AD,Beach KE,Sen N,Zhang RC,Bermingham-McDonogh O</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
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Immunoprecipitation (1)

<p>Life sciences</p> <p>Allosteric activation of Hsp70 reduces mutant huntingtin levels, the clustering of N-terminal fragments, and their nuclear accumulation.</p> <p>"PA5-28003 was used in Immunoprecipitation to show that the strategy of allosteric Hsp70 activation holds potential for HD."</p> <p>Authors: Pinho BR,Almeida LM,Duchen MR,Oliveira JMA</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:3000</p>
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