

HSP70 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse, Non-human primate, Rat
Host/Isotype	Chicken / IgY
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Full length Human HSP70
Form	Liquid
Concentration	1 mg/mL
Purification	PEG precipitation
Storage buffer	PBS, pH 7.4, with 50% glycerol
Contains	0.09% sodium azide
Storage conditions	-20°C
RRID	AB_2735925

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunocytochemistry (ICC/IF)	1:50-1:100	-
ELISA (ELISA)	Assay-Dependent	-

Product Specific Information

1 µg/mL of PA5-77828 was sufficient for detection of HSP70 in 20 µg of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-chicken IgY:HRP as the secondary antibody. | Detects approximately 70kDa.

Product Images For HSP70 Polyclonal Antibody

HSP70 Antibody (PA5-77828) in WB

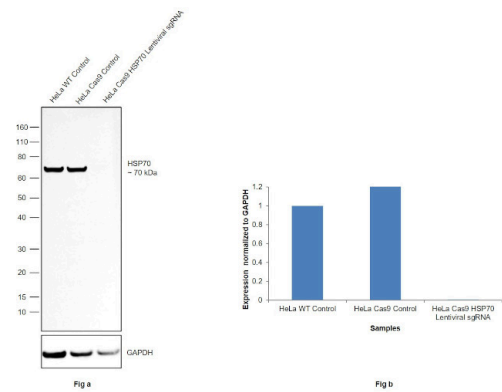
Western blot was performed using Anti-HSP70 Polyclonal Antibody (Product # PA5-77828) and a 70kDa band corresponding to HSP70 was observed across all cell lines tested and was induced upon heat shock. Whole cell extracts (30 µg lysate) of HEK-293 (Lane 1), A549 (Lane 2), IMR-32 (Lane 3), Jurkat (Lane 4), Jurkat treated with heat shock (42deg for 30 min followed by 37deg for 3 hours) (Lane 5), MDCK (Lane 6), PC-12 (Lane 7) and COS-7 (Lane 8) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). 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 Goat anti-Chicken IgY (H+L) Secondary Antibody, HRP (Product # A16054; 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

HSP70 Antibody (PA5-77828)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using HSP70 Polyclonal Antibody (Product # PA5-77828), shows increased expression of proteins upon heat shock treatment in Jurkat cell line. {TM}

HSP70 Antibody (PA5-77828)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of 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 # PA5-77828). {KO}



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