

# Phospho-CHK2 (Thr68) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein encompassing a sequence within the N-terminus region of human Chk2 (phospho Thr68). The exact sequence is proprietary.
Form	Liquid
Concentration	0.73 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
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_2736363

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

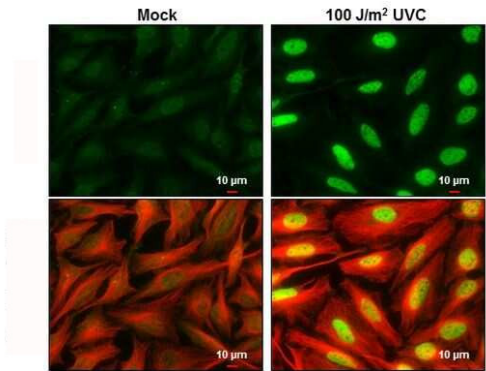
## Product Specific Information

Positive Control: HeLa, 293T, 293T (100µM etoposide for 2hr)

Predicted Reactivity: Pig (100%)

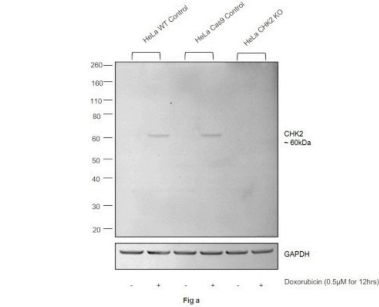
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Phospho-CHK2 (Thr68) Polyclonal Antibody



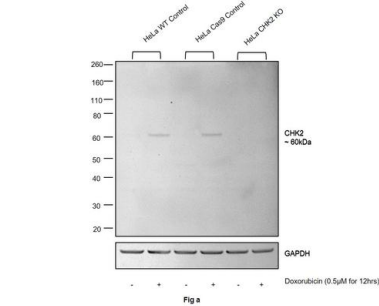
Phospho-CHK2 (Thr68) Antibody (PA5-78361) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of Phospho-CHK2-(Thr68) was performed in Mock and treated HeLa cells fixed in 4% paraformaldehyde at RT for 15 min. Green: Phospho-CHK2 (Thr68) Polyclonal Antibody (Product # PA5-78361) diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker. Scale bar = 10 µm.



Phospho-CHK2 (Thr68) Antibody (PA5-78361)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein inCHK2 KO cell line compared to control cell line using Anti-Phospho-CHK2 (Thr68) Polyclonal Antibody (Product # PA5-78361). {KO}



Phospho-CHK2 (Thr68) Antibody (PA5-78361) in WB

Knockout of CHK2 was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR1020054\_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of CHK2 was performed by loading 30 µg of HeLa Wild Type (Lane 1), HeLa Wild Type treated with 0.5 µM Doxorubicin for 12hrs (Lane 2), HeLa Cas9 (Lane 3), HeLa Cas9 treated with 0.5 µM Doxorubicin for 12hrs (Lane 4), HeLa CHK2 KO (Lane 5) and HeLa CHK2 KO treated with 0.5 µM Doxorubicin for 12hrs (Lane 6) membrane enriched extracts. The samples were electrophoresed using NuPAGE™ Novex™ 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 Anti-Phospho-CHK2 (Thr68) Polyclonal Antibody (Product # PA5-78361, 1:1,000 dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:5,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to CHK2.

View more figures on [thermofisher.com](https://thermofisher.com)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.