

Caspase 3 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein encompassing a sequence within the center region of human Caspase 3. The exact sequence is proprietary.
Form	Liquid
Concentration	0.15 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 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_2735574

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:10,000	2 Publications
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
Immunoprecipitation (IP)	1:100-1:500	-

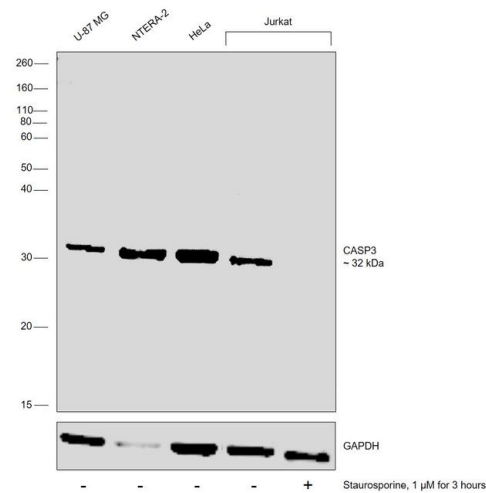
Product Specific Information

Positive Control: HeLa, HeLa (30 µM Cisplatin treatment for 24 hr), PC-12 (30uM cisplatin treatment for 24h), PC-12, Rat2, C8D30, NIH-3T3, Raw264.7, C2C12, Jurkat, Raji, NCI-H929, K562, THP-1, HL-60

Predicted Reactivity: Dog (89%), Cat (87%), Pig (88%), Rabbit (86%), Chimpanzee (99%), Bovine (84%)

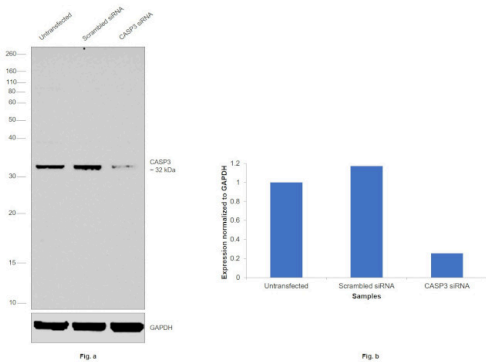
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Caspase 3 Polyclonal Antibody



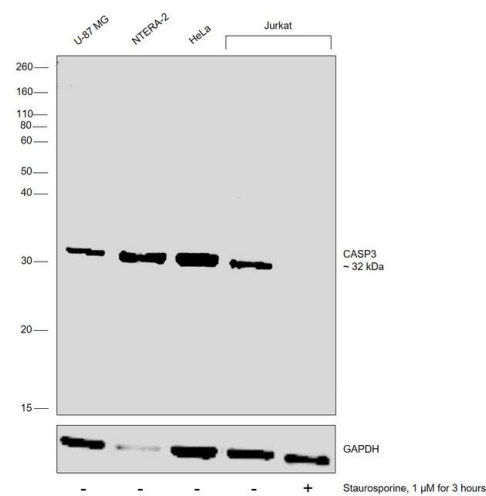
Caspase 3 Antibody (PA5-77887) in WB

Western blot was performed using Anti-Caspase 3 Polyclonal Antibody (Product # PA5-77887) and a 32 kDa band corresponding to Caspase-3 was observed across U-87 MG, NTERA-2 cl.D1, HeLa and Jurkat. Whole cell extracts (30 µg lysate) of U-87 MG (Lane 1), NTERA-2 cl.D1 (Lane 2), HeLa (Lane 3), Jurkat (Lane 4) and Jurkat treated with 1 µM of Staurosporine for 3 hours (Lane 5) were electrophoresed using NuPAGE™ 12% Bis-Tris Protein Gel (Product # NP0341BOX). 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 (1:2500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1: 8000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Caspase 3 Antibody (PA5-77887)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. NTERA-2 cl.D1 cells were transfected with Caspase-3 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Caspase 3 Polyclonal Antibody (Product # PA5-77887). {KD}



Caspase 3 Antibody (PA5-77887)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Caspase 3 Polyclonal Antibody (Product # PA5-77887), shows decreased expression of Caspase 3 in Jurkat cell line upon Staurosporine treatment. {TM}

View more figures on thermofisher.com

Western Blot (2)

Scientific reports	Year 2023
Oleuropein confers neuroprotection against rotenone-induced model of Parkinson's disease via BDNF/CREB/Akt pathway.	
"Published figure using Caspase 3 polyclonal antibody (Product # PA5-77887) in Western Blot"	
Authors: Singh R,Zahra W,Singh SS,Birla H,Rathore AS,Keshri PK,Dilnashin H,Singh S,Singh SP	
Life science alliance	Year 2020
Role of opioid signaling in kidney damage during the development of salt-induced hypertension.	Species Rat
"Published figure using Caspase 3 polyclonal antibody (Product # PA5-77887) in Western Blot"	Dilution 1:1000
Authors: Golosova D,Palygin O,Bohovyk R,Klemens CA,Levchenko V,Spires DR,Isaeva E,El-Meanawy A,Staruschenko A	

Immunohistochemistry (7)

Bioactive materials	Year 2023
Passively-targeted mitochondrial tungsten-based nanodots for efficient acute kidney injury treatment.	Species Mouse
"PA5-77887 was used in Immunohistochemistry-immunofluorescence to provide a new way to passively target mitochondria for AKI, and give inspiration for the treatment of many major diseases closely related to mitochondria, such as myocardial infarction and cerebral infarction."	
Authors: Huang Q,Yang Y,Zhao T,Chen Q,Liu M, Ji S,Zhu Y,Yang Y,Zhang J,Zhao H,Nan Y,Ai K	
Environmental science and pollution research international	Year 2022
Silver nanoparticles induced hepatotoxicity via the apoptotic/antiapoptotic pathway with activation of TGF-1 and -SMA triggered liver fibrosis in Sprague Dawley rats.	Species Rat
"Published figure using Caspase 3 polyclonal antibody (Product # PA5-77887) in Immunohistochemistry"	Dilution 1:100
Authors: Assar DH,Mokhbatly AA,Ghazy EW,Elbially ZI,Gaber AA,Hassan AA,Nabil A,Asa SA	

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

IHC (P) (1)

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.