

# Caspase 3 Monoclonal Antibody (3CSP03 (4.1.18))

Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	3CSP03 (4.1.18)
Conjugate	Unconjugated
Immunogen	Recombinant full length human Caspase 3 protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10979528

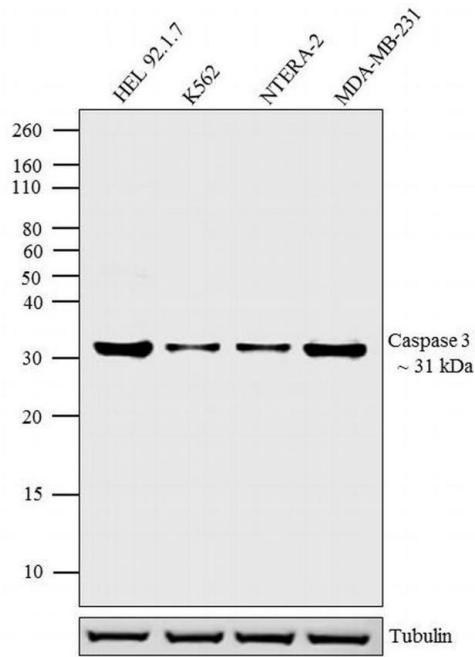
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	2 Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-
Immunoprecipitation (IP)	2 µg/mg protein lysate	-

## Product Specific Information

MA5-11521 targets Caspase 3 in immunohistochemistry (paraffin), immunoprecipitation, and Western blot applications and shows reactivity with Human samples.

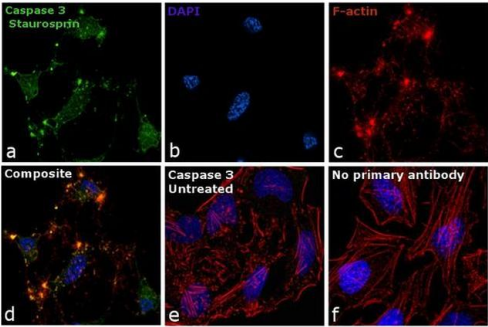
The MA5-11521 immunogen is recombinant full length human Caspase 3 protein.

Product Images For Caspase 3 Monoclonal Antibody (3CSP03 (4.1.18))



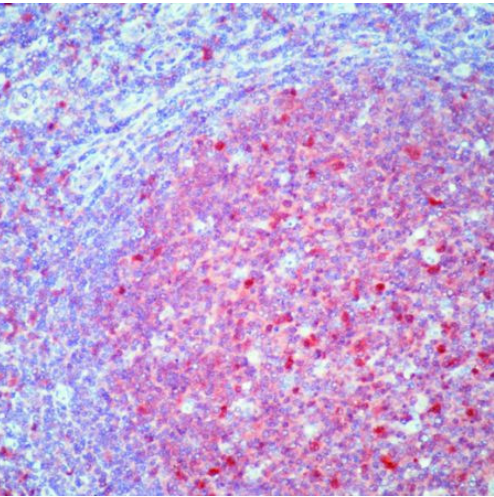
Caspase 3 Antibody (MA5-11521) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HEL 92.1.7 (Lane 1), K562 (Lane 2), NTERA-2 (Lane 3), and MDA-MB-231 (Lane 4). The blots were probed with Anti-Caspase-3 Mouse Monoclonal Antibody (Product # MA5-11521, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 31 kDa band corresponding to Caspase-3 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Caspase 3 Antibody (MA5-11521)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Caspase 3 using Anti-Caspase 3 Monoclonal Antibody (3CSP03 (4.1.18)) (Product # MA5-11521) shows increased expression of proteins in HeLa cell line upon Staurosporine treatment. {TM}



Caspase 3 Antibody (MA5-11521) in IHC (P)

Formalin-fixed, paraffin-embedded human tonsil stained with Caspase 3 antibody using peroxidase-conjugate and AEC chromogen. Note cytoplasmic and nuclear staining of lymphoid cells.

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

## Western Blot (2)

Advances in clinical and experimental medicine : official organ  
Wroclaw Medical University

### MYBL2 in synergy with CDC20 promotes the proliferation and inhibits apoptosis of gastric cancer cells.

"MA5-11521 was used in Western Blot to examine the role of myeloblastosis viral oncogene homolog-like 2 (MYBL2) in gastric cancer progression and investigate the underlying mechanisms."

Authors: Deng Q,Wu L,Li Y,Zou L

Year  
2021

Species  
Human

Dilution  
1:1000

Stem cell research & therapy

### Pulsed focused ultrasound enhances the therapeutic effect of mesenchymal stromal cell-derived extracellular vesicles in acute kidney injury.

"MA5-11521 was used in Western Blotting to show that pFUS may be a strategy for enhancing the therapeutic efficacy of MSC-derived EV treatment for the treatment of AKI."

Authors: Ullah M,Liu DD,Rai S,Razavi M,Concepcion W,Thakor AS

Year  
2020

Species  
Mouse

Dilution  
1:200

## Immunohistochemistry (6)

The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians

### Effects of caffeine on neuronal apoptosis in neonatal hypoxic-ischemic brain injury.

"MA5-11521 was used in immunohistochemistry to study the effects of caffeine on hypoxia-ischemia-induced neuronal apoptosis in a neonatal rat model and the therapeutic implications for brain injury"

Authors: Kilicdag H,Daglioglu YK,Erdogan S,Zorludemir S

Year  
2014

Species  
Rat

Cancer

### Combination of molecular alterations and smoking intensity predicts bladder cancer outcome: a report from the Los Angeles Cancer Surveillance Program.

"MA5-11521 was used in immunohistochemistry to study the value of a panel of 9 biomarkers plus smoking intensity in predicting the outcome of bladder cancer"

Authors: Mitra AP,Castelao JE,Hawes D,Tsao-Wei DD,Jiang X,Shi SR,Datar RH,Skinner EC,Stein JP,Groshen S,Yu MC,Ross RK,Skinner DG,Cortessis VK,Cote RJ

Year  
2013

Species  
Human

Dilution  
1:200

[View more IHC references on thermofisher.com](#)

## More applications with references on 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.