

Caspase 3 Monoclonal Antibody (74T2)

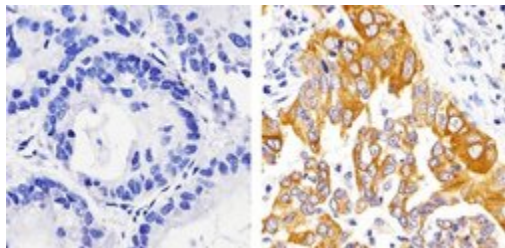
Product Details	
Size	100 µg
Species Reactivity	Horse, Human, Mouse, Non-human primate, Rat
Published Species	Artificial Control, Rat, Human, Horse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	74T2
Conjugate	Unconjugated
Immunogen	Recombinant protein derived from the N-terminus of human Caspase 3 protein
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2533540

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2 µg/mL	1 Publication
Immunofluorescence (IF)	2 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunoprecipitation (IP)	Assay Dependent	-
Western Blot (WB)	2 µg/mL	3 Publications
Immunohistochemistry (IHC)	-	1 Publication

Product Images For Caspase 3 Monoclonal Antibody (74T2)

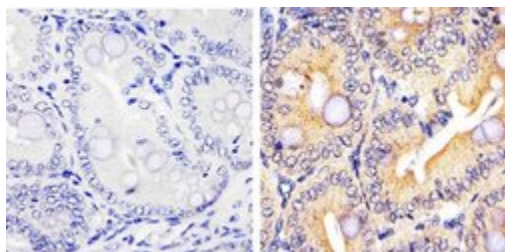
Caspase 3 Antibody (43-7800) in IHC (P)

Immunohistochemistry analysis of Caspase-3 showing staining in the cytoplasm of paraffin-embedded human lung adenocarcinoma tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a Caspase-3 monoclonal antibody (Product # 43-7800) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



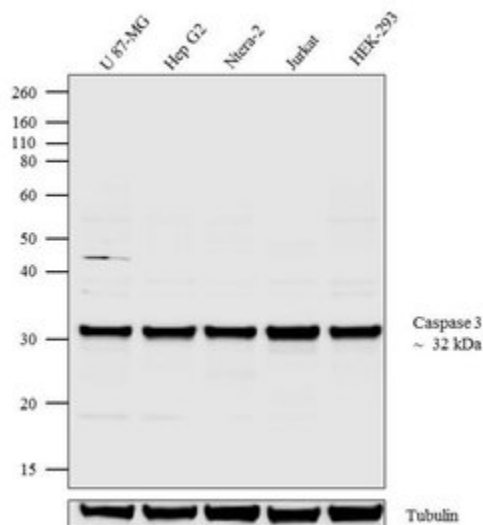
Caspase 3 Antibody (43-7800) in IHC (P)

Immunohistochemistry analysis of Caspase-3 showing staining in the cytoplasm of paraffin-embedded mouse colon tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a Caspase-3 monoclonal antibody (Product # 43-7800) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Caspase 3 Antibody (43-7800) in WB

Western blot analysis of Caspase-3 was performed by loading 20 µg of U-87 MG (lane1), Hep G2 (lane2), Ntera-2 (lane3), Jurkat (lane4) and HEK-293 (lane5) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. Caspase-3 was detected at ~ 32 kDa using Caspase-3 Mouse Monoclonal Antibody (Product # 43-7800) at 2mg/mL in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Mouse - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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

5 References

Western Blot (3)

Molecular medicine reports

Diazoxide inhibits of ER stressmediated apoptosis during oxygenglucose deprivation in vitro and cerebral ischemiareperfusion in vivo.

"Published figure using Caspase 3 monoclonal antibody (Product # 43-7800) in Western Blot"

Authors: Lei X,Lei L,Zhang Z,Cheng Y

Species
Rat

Dilution
1:400

Year
2018

Journal of cellular and molecular medicine

5-Azacytydine and resveratrol reverse senescence and ageing of adipose stem cells via modulation of mitochondrial dynamics and autophagy.

"43-7800 was used in Western Blotting to evaluate whether treatment of ASCsEMS with a combination of 5-azacytydine and resveratrol would reverse aged phenotype of these cells."

Authors: Kornicka K,Szapka-Kosarzewska J,mieszek A,Marycz K

Species
Horse
Artificial Control

Dilution
1:500
Not Cited

Year
2019

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

Immunohistochemistry (1)

Molecular therapy oncolytics

Tunneling nanotubes: an alternate route for propagation of the bystander effect following oncolytic viral infection.

"43-7800 was used in Immunohistochemistry to provide proof-of-principle demonstration of a previously unknown and alternative mechanism for inducing apoptosis in noninfected recipient cells."

Authors: Ady J,Thayanithy V,Mojica K,Wong P,Carson J,Rao P,Fong Y,Lou E

Species
Human

Dilution
Not Cited

Year
2020

Immunocytochemistry (1)

Cell and bioscience

Ultrastructural changes during osteogenic differentiation in mesenchymal stromal cells cultured in alginate hydrogel.

"437800 was used in immunocytochemistry to analyze changes occurring during the osteogenic differentiation of mesenchymal stem cells cultured in alginate hydrogel"

Authors: Grzesiak J,mieszek A,Marycz K

Species
Rat

Dilution
1:100

Year
2020

More applications with references on thermofisher.com

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