

# 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

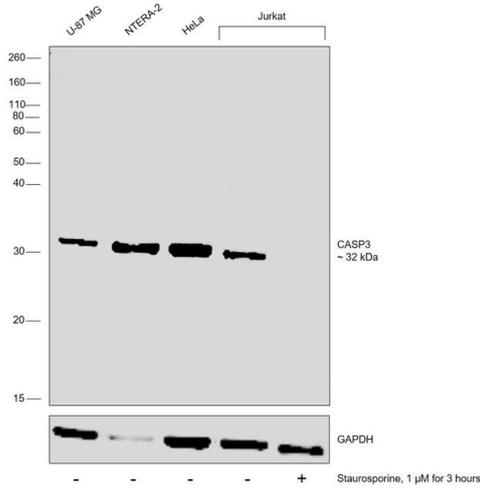
Predicted Reactivity: Dog (89%), Cat (87%), Pig (88%), Rabbit (86%), Chimpanzee (99%), Bovine (84%)

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

## Product Images For Caspase 3 Polyclonal Antibody

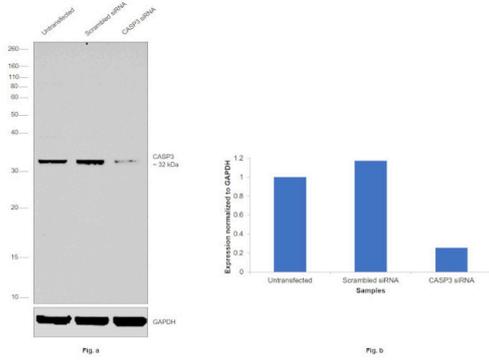
### Caspase 3 Antibody (PA5-77887) in WB

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).



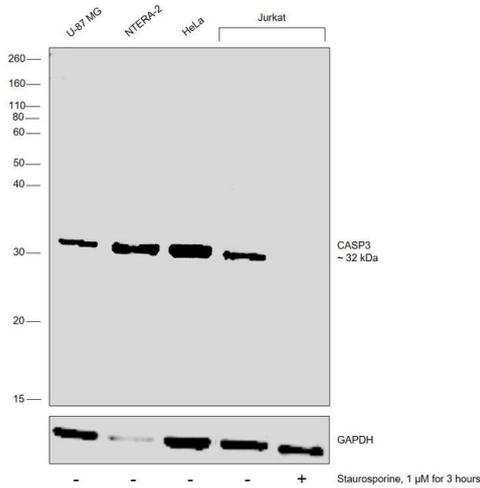
### Caspase 3 Antibody (PA5-77887)

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}



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## 10 References

### Western Blot (2)

#### Scientific reports

#### 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

Year  
2023

#### Life science alliance

#### Role of opioid signaling in kidney damage during the development of salt-induced hypertension.

"Published figure using Caspase 3 polyclonal antibody (Product # PA5-77887) in Western Blot"

Authors: Golosova D,Palygin O,Bohovyk R,Klemens CA,Levchenko V,Spires DR,Isaeva E,El-Meanawy A,Staruschenko A

Year  
2020

Species  
Rat

Dilution  
1:1000

### Immunohistochemistry (7)

#### Bioactive materials

#### Passively-targeted mitochondrial tungsten-based nanodots for efficient acute kidney injury treatment.

"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

Year  
2023

Species  
Mouse

#### Environmental science and pollution research international

#### Silver nanoparticles induced hepatotoxicity via the apoptotic/antiapoptotic pathway with activation of TGF-1 and -SMA triggered liver fibrosis in Sprague Dawley rats.

"Published figure using Caspase 3 polyclonal antibody (Product # PA5-77887) in Immunohistochemistry"

Authors: Assar DH,Mokhbatly AA,Ghazy EW,Elbially ZI,Gaber AA,Hassan AA,Nabil A,Asa SA

Year  
2022

Species  
Rat

Dilution  
1:100

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### IHC (P) (1)

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