

# 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, 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_2735574

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:10,000	2 Publications
Immunohistochemistry (IHC)	-	10 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

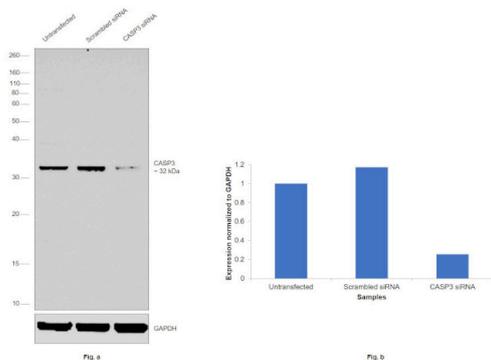
Predicted Reactivity: Dog (89%), Cat (87%), Pig (88%), Rabbit (86%), Chimpanzee (99%), Bovine (84%)

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

## Product Images For Caspase 3 Polyclonal Antibody

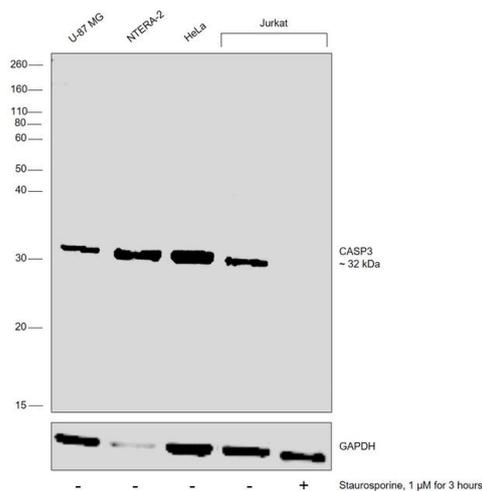
### Caspase 3 Antibody (PA5-77887)

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}



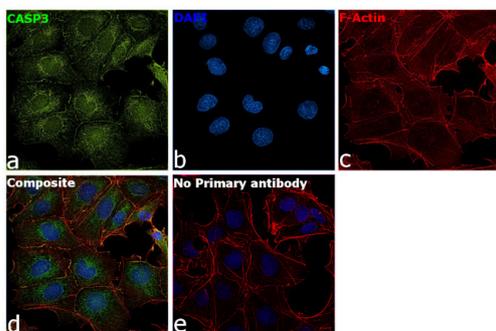
### Caspase 3 Antibody (PA5-77887)

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}



### Caspase 3 Antibody (PA5-77887) in ICC/IF

Immunofluorescence analysis of Caspase-3 was performed using 70% confluent log phase NTERA-2 cl.D1 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Caspase 3 Polyclonal Antibody (Product # PA5-77887) at 1:200 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790, 1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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

## 13 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 (10)

#### Frontiers in pharmacology

#### New insights into the anticancer effects of *Polycladia crinita* aqueous extract and its selenium nanoformulation against the solid Ehrlich carcinoma model in mice via VEGF, notch 1, NF-B, cyclin D1, and caspase 3 signaling pathway.

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

Authors: Alotaibi BS,El-Masry TA,Selim H,El-Bouseary MM,El-Sheekh MM,Makhlof MEM,El-Nagar MMF

Year  
2024

#### International journal of experimental pathology

#### Panx1 knockout promotes preneoplastic aberrant crypt foci development in a chemically induced model of mouse colon carcinogenesis.

"PA5-77887 was used in Immunohistochemistry to indicate that Panx1 genetic ablation promotes preneoplastic ACF development during chemically induced mouse colon carcinogenesis, and a protective role of Panx1 is postulated."

Authors: Espirito Santo SG,Da Silva TC,Cogliati B,Barbisan LF,Romualdo GR

Year  
2023

Species  
Mouse

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### More applications with references on thermofisher.com

### IHC (P) (1)

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