

# Caspase 1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues within the p20 subunit of human caspase-1
Form	Liquid
Concentration	125 µg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10987516

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	3 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:100	1 Publication

## Product Specific Information

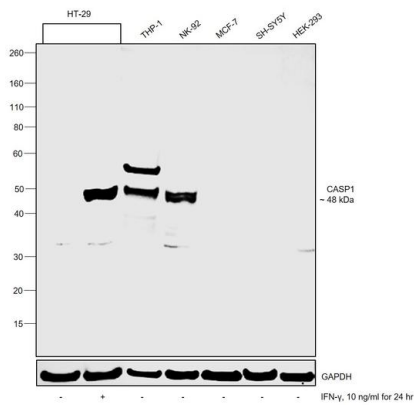
PA5-17570 detects Caspase 1 in WB application with human samples.

It is not recommended to aliquot this antibody.

Product Images For Caspase 1 Polyclonal Antibody

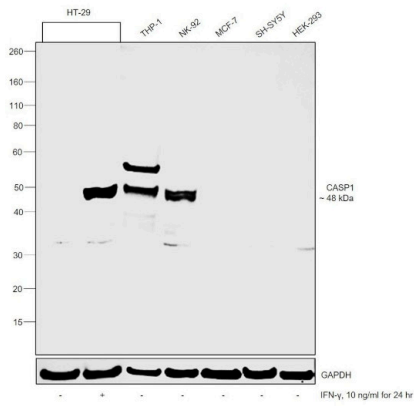
Caspase 1 Antibody (PA5-17570) in WB

Western blot was performed using Anti-Caspase 1 Polyclonal Antibody (Product # PA5-17570) and a 48 kDa band corresponding to Caspase 1 was observed upon treatment with IFN-gamma in HT-29. Caspase 1 was also observed in THP-1 and NK-92 in comparison to MCF-7, SH-SY5Y and HEK-293 which is reported to be low. Whole Cell Extract-WCL (30 µg lysate) of HT-29 (Lane 1), HT-29 treated with IFN-gamma (10 ng/mL for 24hr) (Lane 2), THP-1 (Lane 3), NK-92 (Lane 4), MCF7 (Lane 5), SH-SY5Y (Lane 6) and HEK-293 (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). 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 (1:1,000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



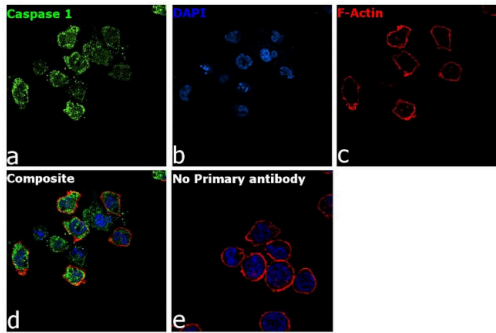
Caspase 1 Antibody (PA5-17570)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Caspase 1 was observed in THP-1 and NK-92 in comparison to MCF-7, SH-SY5Y and HEK-293 using Anti-Caspase 1 Polyclonal Antibody (Product # PA5-17570) in Western Blot. {RE}



Caspase 1 Antibody (PA5-17570) in ICC/IF

Immunofluorescence analysis of Caspase 1 was performed using 70% confluent log phase THP-1 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 1 Polyclonal Antibody (Product # PA5-17570) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32731), (1:2000), 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). 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](https://thermofisher.com)

## 5 References

### Western Blot (3)

BMC gastroenterology

#### Excess fatty acids induce pancreatic acinar cell pyroptosis through macrophage M1 polarization.

"Published figure using Caspase 1 polyclonal antibody (Product # PA5-17570) in Western Blot"

Authors: Xia W,Lu Z,Chen W,Zhou J,Zhao Y

Year  
2022

Species  
Mouse

PLoS neglected tropical diseases

#### Burkholderia pseudomallei triggers canonical inflammasome activation in a human primary macrophage-based infection model.

"Published figure using Caspase 1 polyclonal antibody (Product # PA5-17570) in Western Blot"

Authors: Lichtenegger S,Stiehler J,Saiger S,Zauner A,Kleinhapfl B,Bernecker C,Schlenke P,Wagner GE,Krause K,Gastager M,Steinmetz I

Year  
2020

Species  
Human

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

### Immunohistochemistry (1)

BMC gastroenterology

#### Excess fatty acids induce pancreatic acinar cell pyroptosis through macrophage M1 polarization.

"Published figure using Caspase 1 polyclonal antibody (Product # PA5-17570) in Western Blot"

Authors: Xia W,Lu Z,Chen W,Zhou J,Zhao Y

Year  
2022

Species  
Mouse

### Immunocytochemistry (1)

Frontiers in endocrinology

#### Exenatide Attenuates Non-Alcoholic Steatohepatitis by Inhibiting the Pyroptosis Signaling Pathway.

"Published figure using Caspase 1 polyclonal antibody (Product # PA5-17570) in Immunocytochemistry"

Authors: Liu Y,Wang DW,Wang D,Duan BH,Kuang HY

Year  
2021

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