

For Research Use Only

# Caspase 1/P20 Polyclonal antibody

Catalog Number: 22915-1-AP

Featured Product

986 Publications



## Basic Information

### Catalog Number:

22915-1-AP

### Concentration:

650 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11143

### GenBank Accession Number:

BC062327

### GeneID (NCBI):

834

### UNIPROT ID:

P29466

### Full Name:

caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)

### Calculated MW:

404 aa, 45 kDa

### Observed MW:

45-47 kDa, 30 kDa, 35 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:12000

IHC: 1:100-1:400

IF: 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF, ELISA

### Cited Applications:

WB, IHC, IF, IP, IHC-IF

### Species Specificity:

human

### Cited Species:

human, pig, canine, monkey, chicken, bovine, hamster

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: Raji cells, HepG2 cells, Jurkat cells, THP-1 cells, U-937 cells, PC-12 cells

IHC: human spleen tissue,

IF: ,

## Background Information

CASP1(caspase-1) is also named as IL18C, IL18CE and belongs to the peptidase C14A family. It is a cysteine protease that regulates inflammatory processes through its capacity to process and activate the interleukin-1-beta (IL18), IL18, and IL33 precursor proteins. The active caspase-1 can increase cellular membrane permeability and intracellular calcium levels, which facilitates lysosome exocytosis and release of host antimicrobial factors and microbial products (PMID:21804020). It has 5 isoforms produced by alternative splicing. 22915-1-AP can recognize p45 procaspase and the mature fragment p20.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lin-Tao Xu	34601084	J Ethnopharmacol	WB
DANDAN FENG	34650637	Exp Ther Med	WB
Xin Liu	34586578	J Bioenerg Biomembr	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

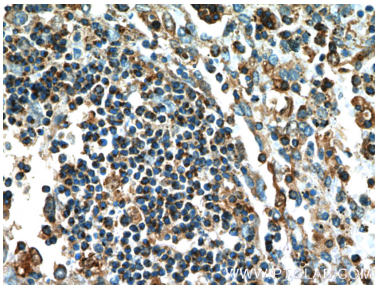
T: 4006900926

E: Proteintech-CN@ptglab.com

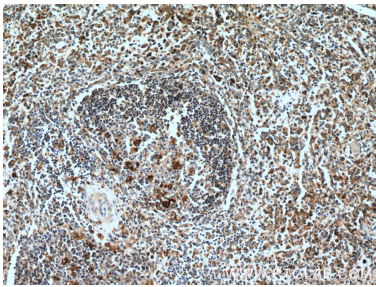
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

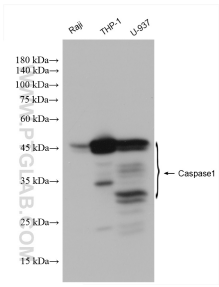
Selected Validation Data



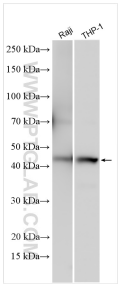
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 22915-1-AP (Caspase 1/P20 Antibody) at dilution of 1:200 (under 10x lens).



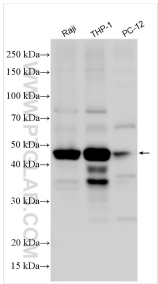
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 22915-1-AP (Caspase 1/P20 Antibody) at dilution of 1:200 (under 40x lens).



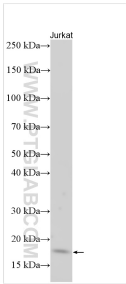
Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/P20 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



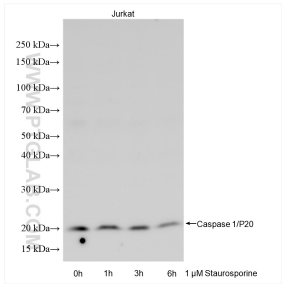
Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/P20 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



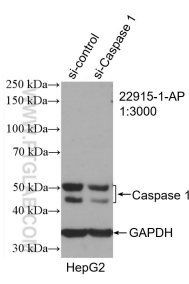
Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/P20 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



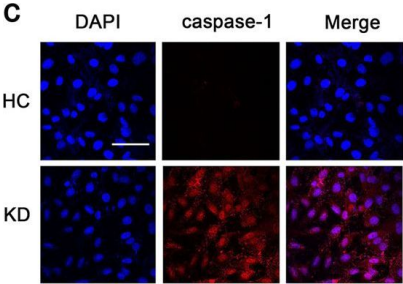
Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/P20 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/P20 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of Caspase 1/P20 antibody (22915-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caspase 1/p20/p10 transfected HepG2 cells.



IF result of 22915-1-AP from publication with PMID: 31611559.