

For Research Use Only

# Caspase 1/P20 Polyclonal antibody, PBS Only

Catalog Number: 22915-1-PBS

Featured Product



## Basic Information

Catalog Number:

22915-1-PBS

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

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human

## Background Information

CASP1(caspase-1) is also named as IL1B, IL1BCE 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 (IL1B), 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.

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

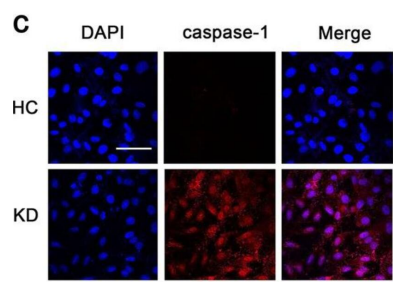
T: 4006900926

E: Proteintech-CN@ptglab.com

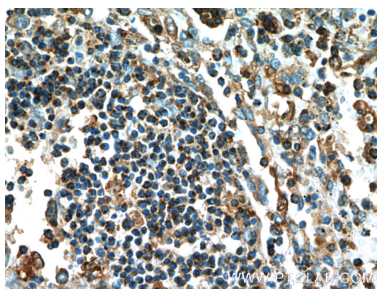
W: ptgcn.com

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

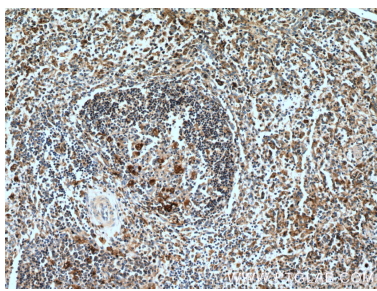
Selected Validation Data



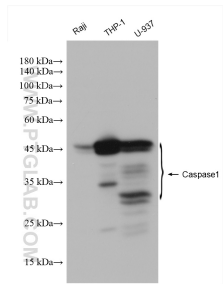
IF result of 22915-1-AP from publication with PMID: 31611559. This data was developed using the same antibody clone with 22915-1-PBS in a different storage buffer formulation.



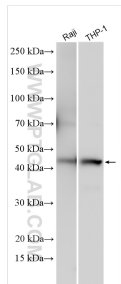
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 22915-1-AP (Caspase 1/P20 Antibody) at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 22915-1-PBS in a different storage buffer formulation.



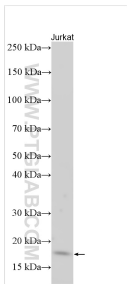
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 22915-1-AP (Caspase 1/P20 Antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 22915-1-PBS in a different storage buffer formulation.



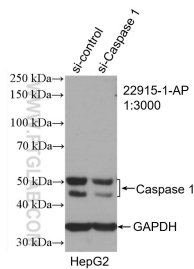
Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/P20 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 22915-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 22915-1-PBS in a different storage buffer formulation.



Jurkat cells 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. This data was developed using the same antibody clone with 22915-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 22915-1-PBS in a different storage buffer formulation.