

# Caspase 1/p20/p10 Polyclonal antibody

Catalog Number: 22915-1-AP

Featured Product

660 Publications

## Basic Information

## Catalog Number:

22915-1-AP

## Size:

650 µg/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:

IF/ICC, IHC, WB, ELISA

## Cited Applications:

IF, IHC, IP, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, rat, mouse, monkey, pig, canine, bovine

**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, HeLa cells, C6 cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells, HepG2 cells, THP-1 cells, PC-12 cells, U-937 cells

**IHC** : human spleen tissue,

**IF** : C6 cells,

## Background Information

CASP1(caspase-1) is also named as IL1BC, 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 all the five isoforms of caspase 1. It also can recognize p45 procaspase and the mature fragments p10 and 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

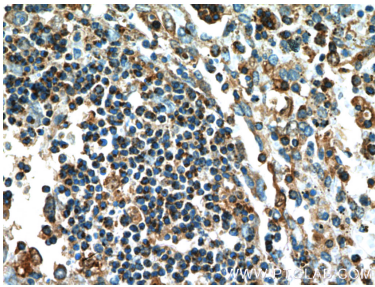
For technical support and original validation data for this product please contact:

T: 4006900926

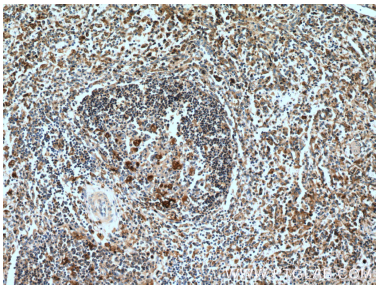
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

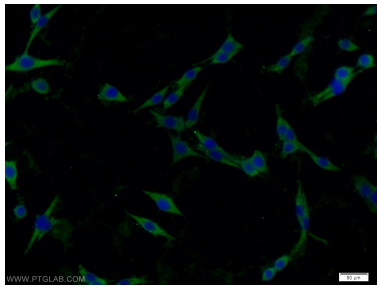
Selected Validation Data



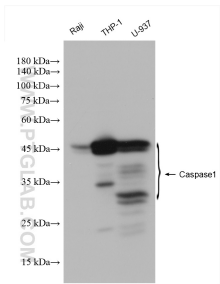
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 22915-1-AP (Caspase 1 Antibody) at dilution of 1:200 (under 10x lens).



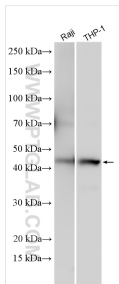
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 22915-1-AP (Caspase 1 Antibody) at dilution of 1:200 (under 40x lens).



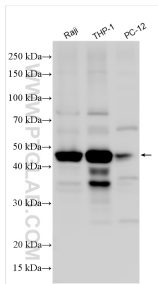
Immunofluorescent analysis of C6 cells using 22915-1-AP (Caspase 1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



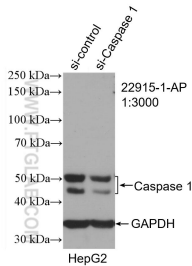
Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/p20/p10 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 22915-1-AP (Caspase 1/p20/p10 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/p10 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



WB result of Caspase 1/p20/p10 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.