

For Research Use Only

# Caspase 1 Polyclonal antibody

Catalog Number: 31020-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 31020-1-AP	<b>GenBank Accession Number:</b> BC008152	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 12362	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P29452	
<b>Isotype:</b> IgG	<b>Full Name:</b> caspase 1	
<b>Immunogen Catalog Number:</b> AG34441	<b>Observed MW:</b> 35-40 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse heart tissue, mouse skeletal muscle tissue, rat heart tissue, rat skeletal muscle tissue
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> mouse, rat	
<b>Cited Species:</b> human, mouse	

## 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). 31020-1-AP is designed for mouse caspase 1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shuang Gao	38752538	FASEB J	IF
Ying Luo	38611695	Molecules	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:

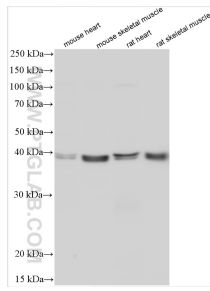
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31020-1-AP (Casp1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.