

For Research Use Only

Caspase 1 Recombinant antibody, PBS Only

Catalog Number: 81482-1-PBS

Featured Product



Basic Information

Catalog Number:

81482-1-PBS

Size:

100ug, Concentration: 1mg/ml by Nanodrop;

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:

30 kDa, 35 kDa, 43-45 kDa

Purification Method:

Protein A purification

CloneNo.:

1018

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human

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. 81482-1-RR can recognize the splicing isoforms of caspase 1.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

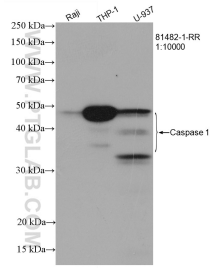
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

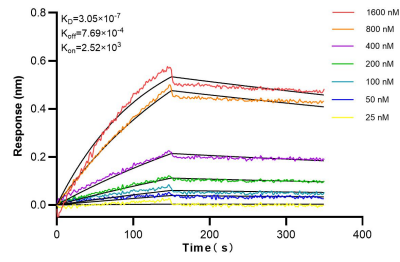
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81482-1-RR (Caspase 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81482-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 81482-1-RR against Human Caspase 1 were performed. The affinity constant is 305 nM.