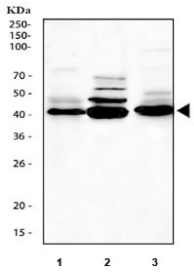
Caspase-1 Antibody (p20 subunit) (R30511)

Catalog No.	Formulation	Size
R30511	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P29452
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Caspase-1 antibody is available for research use only.



Western blot testing of 1) rat thymus, 2) rat C6 and 3) mouse thymus tissue lysate with Caspase-1 antibody. Predicted molecular weight ~45 kDa (full length).

Description

Caspase-1 is a cysteine protease that regulates inflammatory processes through its capacity to process and activate the interleukin-1-beta, IL-18, and IL-33 precursor proteins. It belongs to a family of cysteine proteases known as caspases that always cleave proteins following an aspartic acid residue. The Caspase-1 gene consists of 10 exons spanning at least 10.6 kb and is mapped to 11q23, a site frequently involved in rearrangement in human cancers, including a number of leukemias and lymphomas, by Southern DNA blot analysis of rodent-human hybrids and by in situ hybridization to normal human metaphase chromosomes. Caspase 1 has been shown to induce cell necrosis or pyroptosis and may function in various developmental stages.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Caspase-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of mouse CASP1 (LEKAQKLWKENPSEIYPIMNT) was used as the immunogen for this Caspase-1 antibody. This sequence is from the p20 subunit.

Storage

After reconstitution, the Caspase-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.