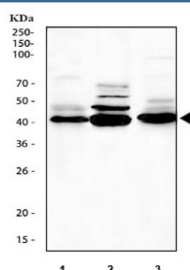


Caspase-1 Antibody (p20 subunit) (R30511)

| 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 |
| 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.