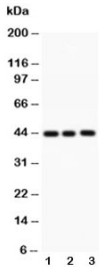
Caspase-1 Antibody (p10) (R30597)

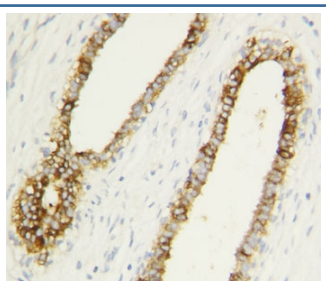
Catalog No.	Formulation	Size
R30597	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P29466
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml
Limitations	This Caspase-1 antibody is available for research use only.



Western blot testing of human 1) MCF-7, 2) HeLa and 3) SW620 lysate with Caspase-1 antibody at 0.5ug/ml.



Caspase-1 antibody testing of human breast cancer tissue by IHC-P.

Description

Caspase-1, an apoptosis-related cysteine protease, 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 was purified from the cytosol of the THP monocytic cell line and found that the active protease was made up of two peptides, which they called p20 and p10 based on their apparent molecular masses by SDS-PAGE. It belongs to a family of cysteine proteases known as caspases that always cleave proteins following an aspartic acid residue. The CASP1 gene 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 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

Amino acids 249-262 (VFIGRLIEHMQEYA) were used as the immunogen for this Caspase-1 antibody.

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.

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