



Caspase-1 Antibody

#27001

Catalog Number: 27001-1, 27001-2

Amount: 50µg/50µl, 100µg/100µl

GenBank accession number :BC062327

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized peptide derived from Human Caspase-1

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Specificity/Sensitivity: Caspase-1 Antibody detects endogenous levels of total Caspase-1

Reactivity: Mouse, Rat, Cow

Applications:

Predicted MW:45kd WB:1:500-3000 IHC:1:100-300 IF:1:10-100

Background :

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. 22915-1-AP can recognize all the five isoforms of caspase 1. It also can recognize p45 procaspase and the mature fragments p10 and p20..
