

Product datasheet for **AP00006PU-N**

Caspase 1 (CASP1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IP, WB
Recommended Dilution:	Western Blot: 0.5-4 µg/ml. Immunoprecipitation: 4-8 µg/ml. Immunofluorescence: 10-20 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide surrounding amino acid 132 of Human Caspase-1.
Specificity:	This antibody recognizes 45 kDa Procaspase-1 and the 20 kDa cleaved product.
Formulation:	PBS, pH 7.2, 0.5mM EDTA State: Aff - Purified State: Liquid purified IgG fraction Stabilizer: 0.5% BSA, 30% Glycerol Preservative: 0.03% Proclin®
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store the antibody undiluted at -20°C or for long term storage (in aliquots) at -70°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	caspase 1
Database Link:	Entrez Gene 834 Human P29466



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Background:

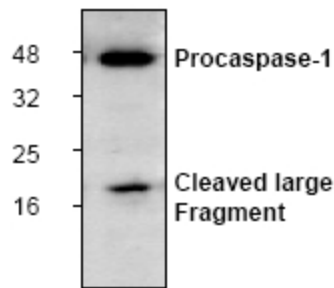
Caspases are a family of cysteine proteases that are key mediators of programmed cell death or apoptosis. The precursor form of all caspases is composed of a prodomain, and large and small catalytic subunits. The active forms of caspases are generated by several stimuli including ligand-receptor interactions, growth factor deprivation and inhibitors of cellular functions. All known caspases require cleavage adjacent to aspartates to liberate one large and one small subunit, which associate into a 2b2 tetramer to form the active enzyme. Caspase 1 is similar to the cell death gene CED3 of *C. elegans* and regulates multiple proinflammatory cytokines, including Interleukin 1b and interferon-gamma-inducing factor. Caspase 1 plays a role down stream of Caspase 8 which is involved in Fas-mediated apoptosis.

Synonyms:

CASP-1, CASP1, IL1BC, IL1BCE, ICE, p45

Note:

Blocking peptide (Cat.-No AP00006CP-N) is available separately.

Product images:

Western blot analysis of Caspase-1 expression in Rat liver tissue lysate using Caspase-1 Antibody