

## Cleaved-Caspase-7 p20 (D198) Polyclonal Antibody

Catalog No: YC0033

**Reactivity:** Human; Mouse

**Applications:** WB;ELISA

Target: Caspase-7

Fields: >>Apoptosis;>>Apoptosis - multiple species;>>TNF signaling pathway;>>Non-

alcoholic fatty liver disease;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases;>>Pathogenic Escherichia coli infection;>>Salmonella infection;>>Pertussis;>>Legionellosis;>>Pathways in

cancer;>>Lipid and atherosclerosis

Gene Name: CASP7

**Protein Name:** Caspase7

Human Gene Id: 840

**Human Swiss Prot** 

No:

Mouse Gene Id: 12369

**Mouse Swiss Prot** 

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

Caspase 7. AA range:149-198

**Specificity:** Cleaved-Caspase-7 p20 (D198) Polyclonal Antibody detects endogenous levels

of fragment of activated Caspase-7 p20 protein resulting from cleavage adjacent

to D198.

P55210

P97864

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, lgG

**Dilution:** WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.

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**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 20kD

**Cell Pathway:** Apoptosis\_Inhibition;Apoptosis\_Mitochondrial;Apoptosis\_Overview;Alzheimer's

disease;

**Background :** This gene encodes a member of the cysteine-aspartic acid protease (caspase)

family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. The precursor of the encoded protein is cleaved by caspase 3 and 10, is activated upon cell death stimuli and induces apoptosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May

2012],

**Function:** catalytic activity:Strict requirement for an Asp residue at position P1 and has a

preferred cleavage sequence of Asp-Glu-Val-Asp-|-.,enzyme regulation:Inhibited by isatin sulfonamides.,function:Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-|-Gly-217' bond. Overexpression promotes programmed cell death.,PTM:Cleavages by granzyme B or caspase-10 generate the two active subunits. Propeptide domains can also be cleaved efficiently by caspase-3. Active heterodimers between the small subunit of caspase-7 and the large subunit of caspase-3, and vice versa, also occur.,similarity:Belongs to the peptidase C14A family.,subunit:Heterotetramer that consists of two anti-parallel

arranged heterodimers, each one formed

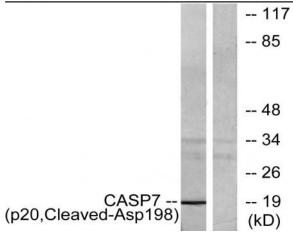
Subcellular Location:

Cytoplasm.

**Expression:** Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and

moderately in testis. No expression in the brain.

## **Products Images**



Western blot analysis of lysates from Jurkat cells, treated with etoposide 25uM 24h, using Caspase 7 (p20,Cleaved-Asp198) Antibody. The lane on the right is blocked with the synthesized peptide.