

## Product datasheet for **AM20344PU-N**

### Caspase-7 (CASP7) Mouse Monoclonal Antibody [Clone ID: 7-1-11]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	7-1-11
Applications:	IHC, WB
Recommended Dilution:	<b>Immunohistochemistry on Paraffin Sections:</b> 10 µg/ml. <b>Western Blot.</b>
Reactivity:	Canine, Hamster, Human, Monkey, Mouse, Porcine, Rabbit, Rat, Sheep
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant Human CASP7.
Specificity:	Detects an ~37 kD protein, corresponding to the apparent molecular mass of the Caspase-7 on SDS-PAGE Immunoblots, in samples from Human, Mouse, Rat, Monkey, Dog, Sheep, Rabbit, Pig and Hamster origins. This antibody recognizes the unprocessed pro-caspase-7 (p35), caspase-7 lacking the short amino-terminal pro domain (32 kD) and the fully processed Caspase-7 (p19) in apoptotic cell extracts.
Formulation:	10 mM Sodium Phosphate, pH 7.2, 50 mM Sodium Chloride with 0.1 mM PMSF State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	caspase 7



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**Database Link:** [Entrez Gene 12369 Mouse](#)[Entrez Gene 64026 Rat](#)[Entrez Gene 697633 Monkey](#)[Entrez Gene 840 Human P55210](#)

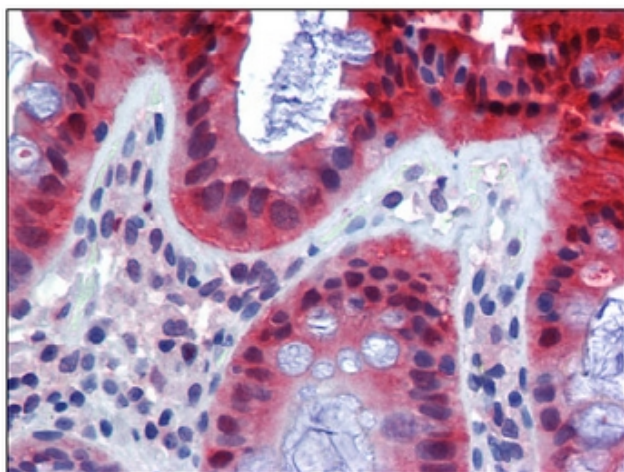
**Background:** Caspases are cysteine proteases, expressed as inactive precursors, that mediate apoptosis by proteolysis of specific substrates. Caspases have the ability to cleave after aspartic acid residues. There are two classes of caspases involved in apoptosis; initiators (activation by receptor cluster) and effectors (activation by mitochondrial permeability transition). Proapoptotic signals autocatalytically activate initiator caspases, such as Caspase 8 and Caspase 9. Activated initiator caspases then process effector caspases, such as Caspase 3 and Caspase 7, which in turn cause cell collapse.

**Synonyms:** CASP-7, CASP7, MCH3, CMH-1

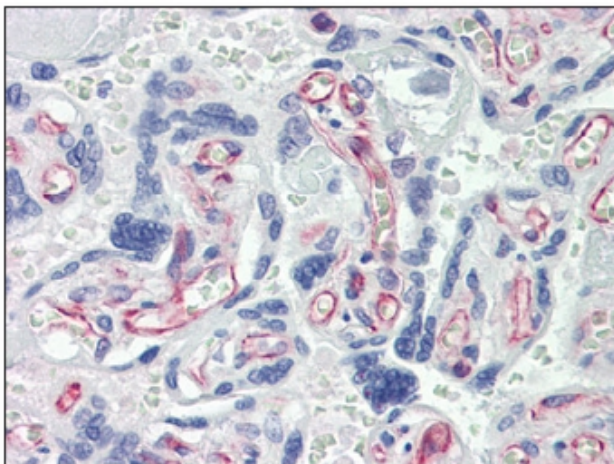
**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Alzheimer's disease, Apoptosis

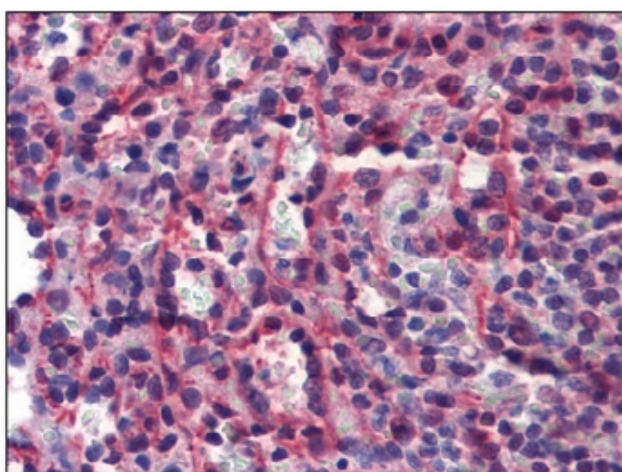
### Product images:



Caspase-7 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Colon followed by biotinylated anti-Mouse IgG secondary antibody, Alkaline Phosphatase-Streptavidin and Chromogen.



Caspase-7 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Placenta followed by biotinylated anti-Mouse IgG secondary antibody, Alkaline Phosphatase-Streptavidin and Chromogen.



Caspase-7 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Spleen followed by biotinylated anti-Mouse IgG secondary antibody, Alkaline Phosphatase-Streptavidin and Chromogen.