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Product datasheet for AM05296PU-N

Caspase-7 (CASP7) Mouse Monoclonal Antibody [Clone ID: MCH3-5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MCH3-5
Applications:	WB
Recommended Dilution:	Western Blot: Detects proenzyme form of human Caspase-7. **Positive Control:** MCF-7 cell line.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human caspase-7 protein and mouse myeloma cells.
Specificity:	Reacts with Cysteine-requiring Aspartate Protease-7.
Formulation:	PBS containing 0.08% Sodium Azide as preservative. State: Purified State: Liquid (sterile filtered) purified IgG fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	caspase 7
Database Link:	Entrez Gene 840 Human P55210

View online »

Background: Caspases are key effectors of programmed cell death. Caspase-7 along with caspase 3 and 6 form the group of effector caspases that are responsible for the cleavage of multiple substrates including the cytokeratins, PARP, alpha fodrin, NuMA and others. Caspase-7 is a 303 amino acid protein with high similarity to caspase-3. Caspase-7 occurs in three varient forms. Granzyme B activates pro-caspase-7 to a form which can cleave poly(ADP-ribose) polymerase (PARP) to its signature fragment of ~85 kDa. Also, in vivo caspase-7 appears to be a better substrate for granzyme B than caspase-3. Pro-caspase-7 has been shown to exist as dimers or high order oligomers. Caspase-7 may be an important intracellular effector of granzyme B-mediated apoptosis and cytotoxic T-lymophocyte-induced cell killing in vivo.

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

Product images:

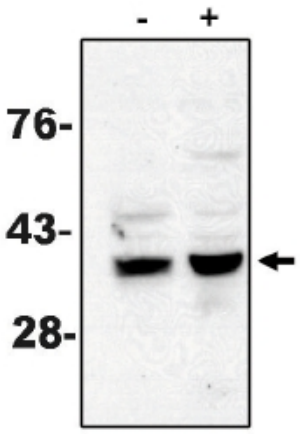

Figure 1. Western blot analysis using caspase-7 antibody on MCF-7 cells treated with thapsigargin for 48 hours which are negative (-) and positive (+) for caspase-3.