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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Caspase-7. Mouse Monoclonal Antibody

Cysteine-requiring Aspartate Protease-7; Apoptotic protease Mch-3; ICE-like apoptotic protease 3

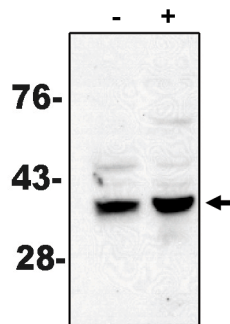
BACKGROUND

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 variant 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-lymphocyte-induced cell killing *in vivo*.

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human caspase-7 protein and mouse myeloma cells.

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.



ORDERING INFORMATION

CATALOG NUMBER

X1267M

SIZE

100 µg

FORM

Unconjugated

HOST/CLONE

Mouse Clone MCH3-5

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Human P55210

POSITIVE CONTROL/TISSUE EXPRESSION

MCF-7 cell line

COMMENTS

Detects proenzyme form of human Caspase-7 by Western blot. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Cohen, G.M., et al. Caspases: the executioners of apoptosis. *Biochem. J.* 1997, 326, 1-16
2. Chandler, J.M., et al. Different subcellular distribution of Caspase-3 and Caspase-7 following Fas-induced apoptosis in mouse liver. *J. Bio. Chem.* 1998, 273, 10815-10818
3. Behrendorf, H.A., et al. The endothelial monocyte-activating polypeptide II (EMAP II) is a substrate for caspase-7. *FEBS Lett.* 2000, 466, 143-147

PRODUCT SPECIFIC REFERENCES