

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

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- Trockeneiszuschlag
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Caspase-3. Mouse Monoclonal Antibody

BACKGROUND

Caspase-3 along with caspase 7 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 occurs in three varient forms.

Caspase-3-like activities are required for Fas-mediated apoptosis. However, the role of caspase-1 and caspase-3 in mediating Fas-induced cell death is not clear. Although wild-type, caspase-1(-/-), and caspase-3(-/-) hepatocytes were killed at a similar rate when cocultured with FasL expressing NIH 3T3 cells, caspase-3(-/-) hepatocytes displayed drastically different morphological changes as well as significantly delayed DNA fragmentation. For both wild-type and caspase-1 (-/-) apoptotic hepatocytes, typical apoptotic features such as cytoplasmic blebbing and nuclear fragmentation are seen within 6 hr, but neither event was observed for caspase-3(-/-) hepatocytes. In thymocytes apoptotic caspase -3 (-/-) thymocytes exhibit similar abnormal morphological changes and delayed DNA fragmentation observed in hepatocytes. Cleavage of various caspase substrates implicates apoptotic events, including gelsolin, fodrin, laminB, and DFF45/ICAD are delayed or absent. The altered cleavage of these key substrates is likely responsible for the aberrant apoptosis observed in both hepatocytes and thymocytes deficient in caspase-3.

ORDERING INFORMATION

CATALOG NUMBER

X1172M

Size

 $100 \mu g$

FORM

Unconjugated

HOST/CLONE

Mouse Clone AM1 4

FORMULATION

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

CONCENTRATION

See vial for concentration

ISOTYPE

lgG

APPLICATIONS

Western Blot

Species Reactivity
Human

ACCESSION NUMBER

P42574, Human

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human Caspase-3 protein and mouse myeloma cells.

Positive Control/Tissue Expression

COMMENTS

Detects human Caspase-3 by Western blot. Optimal concentration should be evaluated by serial dilutions.

Last Modified 5/4/2012

Purification

For research use only. Not for use in human diagnostics or therapeutics.

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. Slee, E.A., et al. Ordering the cytochrome c-initiated caspase cascade: hierarchical activation of caspases-2, -3, -6, -7, -8, and -10 in a caspase-9-dependent manner. J. Cell Biol. 1999, 144, 281-292
- 2. Ueda, S., et al. Redox regulation of caspase-3(-like) protease activity: regulatory roles of thioredoxin and cytochrome c. J. Immunol. 1998, 161, 6689-6695
- 3. Samali, A., et al. Presence of a pre-apoptotic complex of pro-caspase-3, Hsp60 and Hsp10 in the mitochondrial fraction of jurkat cells. EMBO J. 1999, 18, 2040-2048
- 4. Cohen, G.M., et al. Caspases: the executioners of apoptosis. Biochem. J. 1997, 326, 1-16