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Caspase-6. Mouse Monoclonal Antibody

Cysteine-requiring Aspartate Protease-6; Apoptotic protease Mch-2

Background

Caspase-6 (Cysteine-Requiring Aspartate Proteases) is part of a family of intracellular cysteine proteases that cleave their substrates after aspartic acid residues. These proteases play an integral role in inducing apoptosis in cells. Procaspase-6 (Mch2), a member of the ICE/ced-3 subfamily, is an inactive proenzyme that is activated to form caspase-6 by proteolytic cleavage at certain aspartic acid residues. During cleavage, the N-terminal is removed and the proenzyme is converted into a large (p18) and small (p11) subunits.

Caspase-6 has two isoforms, α and β, produced by alternative splicing. Over-expression of the α isoform of caspase-6 without its prodomain can induce apoptosis. The β isoform does not seem to display proteolytic activity. Together with caspases-3 and -7, the α isoform of caspase-6 is classified as an effector/execution caspase. Caspase-3, caspase-8 and caspase-10 can cleave procaspase-6. Active caspase-6 cleaves several other proteins such as lamins, NuMa and Keratin 18. A possible cleavage of caspases-8 and -10 in cytochrome-C dependent apoptosis was reported recently.

Ordering Information

Catalog Number
X1173M

Size
100 µg

Form
Unconjugated

Host/Clone
Mouse Clone MCH2 14 1-190

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

Concentration
See vial for concentration

Isotype
IgG

Applications
Western Blot

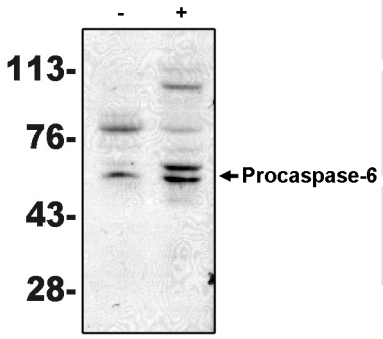
Species Reactivity
Human

Accession Number

Human	P55212

Immunogen

Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human capase-6 protein and mouse myeloma cells.



Western blot analysis using caspase-6 antibody on MCF-7 cells negative (-) and positive (+) for caspase-3 after treatment for 48 hours with thapsigargin.

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Positive Control/Tissue Expression

MCF-7 cell lysate

Comments

Detects proenzyme form of human Caspase-6 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 -20ºC. Aliquot to avoid freeze/thaw cycles

Stability

Products are stable for one year from purchase when stored properly

References

1. Kidd, V.J., Proteolytic activities that mediate apoptosis. Annu. Rev. Physiol. 1998, 60, 533-573

2. Fernandes – Alnemri, T., et al., Mch2, a new member of the apoptotic Ced-3/Ice cysteine protease gene family. Cancer Res. 1995, 55, 2737-2742

3. Orth, K., et al., The CED-3/ICE-like protease Mch2 is activated during apoptosis and cleaves the death substrate lamin A. J. Biol. Chem. 1996, 271, 16443

4. Hirata, H., et al., Caspases are activated in a branched protease cascade and control distinct downstream processes in Fas-induced apoptosis. J. Exp. Med. 1998, 187, 587-600

5. Slee, E. A., et al., Ordering the cytochrome c-initiated caspase cascade: hierarchial activation of caspases-2, -3, -6, -7, -8 and -10 in a caspase-9-dependent manner. J. Cell Biol., 144, 281 (1999)

6. Cohen, G.M., et al. Caspases: the executioners of apoptosis. Biochem. J. 1997, 326, 1-16

Product Specific References

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