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#9762

Caspase-6 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, W-S	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 15, 35	Source/Isotype: Rabbit	UniProt ID: #P55212	Entrez-Gene Id: 839
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Product Usage Information

Application

Western Blotting
Simple Western™

Dilution

1:1000
1:50 - 1:250

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Caspase-6 Antibody recognizes endogenous levels of both full length caspase-6 (35 kDa) and the small subunit of caspase-6 resulting from cleavage at aspartic acid 193 (15 kDa). This antibody does not recognize other caspases.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the cleavage site of caspase-6. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Caspase-6 (Mch2) is one of the major executioner caspases functioning in cellular apoptotic processes (1,2). Upon apoptotic stimulation, initiator caspases such as caspase-9 are cleaved and activated (3). The activated upstream caspases further process downstream executioner caspases, such as caspase-3 and caspase-6, by cleaving them into large and small subunits, thereby initiating a caspase cascade leading to apoptosis (4,5). One of the major targets for caspase-6 is the membrane associated protein lamin A (6). The cleavage of this protein causes cell membrane malfunction, membrane blebbing, and eventual cell death.

Background References

1. Cohen, G.M. (1997) *Biochem J* 326 (Pt 1), 1-16.
2. Faleiro, L. et al. (1997) *EMBO J* 16, 2271-81.
3. Li, P. et al. (1997) *Cell* 91, 479-89.
4. Slee, E.A. et al. (1999) *J Cell Biol* 144, 281-92.
5. MacFarlane, M. et al. (1997) *J Cell Biol* 137, 469-79.
6. Orth, K. et al. (1996) *J Biol Chem* 271, 16443-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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