

# Cleaved Caspase-6 (Asp162) Antibody



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<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P55212	<b>Entrez-Gene Id:</b> 839
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## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## 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

Cleaved Caspase-6 (Asp162) Antibody detects endogenous levels of the large subunit of active caspase-6 resulting from cleavage at Asp179 in human or Asp162 in mouse and rat (18 kDa). This antibody does not recognize other cleaved caspases.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of p18, the large subunit of rat 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

## Cross-Reactivity Key

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

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