Caspase-7 Antibody

Background:
Caspase-7 (CMH-1, Mch3, ICE-LAP3) has been identified as a major contributor to the execution of apoptosis (2-4). Caspase-7 is an effector caspase (along with caspase-2 and -3), meaning that it cleaves essential cellular machinery rather than activating other caspases (5-8). Caspase-7 is cleaved by many enzymes, including caspases-3, -6, -8, -9 and granzyme B (1,4,5). Once activated, caspase-7 cleaves many of the same substrates as caspase-3, including poly (ADP-ribose) polymerase, or PARP (2,4).

Specificity/Sensitivity:
Caspase-7 Antibody detects endogenous levels of both full length caspase-7 (35 kDa) and the large fragment of cleaved caspase-7 following cleavage at aspartic acid 198 (20 kDa). The 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 human caspase-7. Antibodies are purified by protein A and peptide affinity chromatography.

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.

*Species cross-reactivity is determined by western blot.
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:
Western blotting 1:1000
For product specific protocols please see the web page for this product at www.cellsignal.com.

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

Applications

<table>
<thead>
<tr>
<th>Applications</th>
<th>Species Cross-Reactivity*</th>
<th>Molecular Wt.</th>
<th>Source</th>
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<tbody>
<tr>
<td>W</td>
<td>H, M, R, Mk</td>
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<tr>
<td>Endogenous</td>
<td>20, 35 kDa</td>
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<tr>
<td>Rabbit**</td>
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Western blot analysis of extracts from Jurkat cells, untreated or etoposide-treated (25 µM), and HeLa cells, untreated or staurosporine-treated (1 µM), using Caspase-7 Antibody.

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Entrez-Gene ID #840
UniProt ID #P55210

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Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References: