Cleaved Caspase-7 (Asp198) 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: Cleaved Caspase-7 (Asp198) Antibody detects endogenous levels of the large fragment of caspase-7 resulting from cleavage at aspartic acid 198. The antibody does not cross-react with full length caspase-7 or with other caspases.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues surrounding Asp198 in human caspase-7. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

Applications References:
- Western blot analysis of extracts from Jurkat cells and 293 cells, untreated, cytochrome c-treated (0.25 mg/ml, 1 hour) or etoposide-treated (25 µM, 5 hours), using Cleaved Caspase-7 (Asp198) Antibody.

Species Cross-Reactivity:
- Human (H), Mouse (M), Rat (R), Hamster (Hm), Monkey (Mk), Chicken (C), D. melanogaster (Dm), Xenopus (X), Zebrafish (Z), Bovine (B), Dog (Dg), Pig (Pg), Other animal species expected.

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.

Recommended Antibody Dilutions: Western blotting 1:1000; Immunoprecipitation 1:100

**Anti-rabbit secondary antibodies must be used to detect this antibody.

For application specific protocols please see the web page for this product at www.cellsignal.com.

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