**Caspase-3 Control Cell Extracts**

☑️ **100 µl**  
(10 western blots)

**Description:** Caspase-3 Control Cell Extracts (Jurkat untreated): Untreated Jurkat cells are lysed in Chaps cell extract buffer and a cytoplasmic fraction is generated to serve as a negative control for caspase cleavage. Supplied in SDS sample buffer.

Caspase-3 Control Cell Extracts (Jurkat + Cytochrome c): Untreated Jurkat cells are lysed in Chaps cell extract buffer and a cytoplasmic fraction is generated. Extracts are treated with cytochrome c in vitro to generate a positive control for caspase cleavage. Supplied in SDS sample buffer.

**Background:** Caspase-3 (CPP-32, Apoptain, Yama, SCA-1) is a critical executioner of apoptosis, as it is either partially or totally responsible for the proteolytic cleavage of many key proteins such as the nuclear enzyme poly (ADP-ribose) polymerase (PARP) (1). Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments. Cleavage of caspase-3 requires aspartic acid at the P1 position (2).

**Directions for Use:** Boil for 3 minutes prior to use.

Load 10 ul of untreated and cytochrome c treated Caspase-3 Control Cell Extracts per lane.

**Background References:**


**Western blot analysis of Jurkat cell extracts untreated or treated with cytochrome c in vitro, showing full length and/or cleaved caspase-3 (upper) and cleaved caspase-3 Asp175 (lower), using Caspase-3 Antibody #9662 and Cleaved Caspase-3 (Asp175) Antibody #9661.**

**Applications Key:**  
W—Western  
IP—Immunoprecipitation  
IHIC—Immunohistochemistry  
ChIP—Chromatin Immunoprecipitation  
IF—Immunofluorescence  
F—Flow cytometry  
E—ELISA-Peptide  

**Species Cross-Reactivity Key:**  
H—human  
M—mouse  
R—rat  
Hm—hamster  
Mk—monkey  
Mi—mink  
C—chicken  
Dm—D. melanogaster  
X—Xenopus  
Z—zebrafish  
B—bovine  
Pg—pig  
Sc—S. cerevisiae  
Ce—C. elegans  
He—horse  
All—all species expected  

Species enclosed in parentheses are predicted to react based on 100% homology.

**Storage:** Supplied in SDS Sample Buffer: 62.5 mM Tris-HCl (pH 6.8 at 25°C), 2% w/v SDS, 10% glycerol, 50 mM DTT, 0.01% w/v bromophenol blue or phenol red. Store at –20°C, or at –80°C for long-term storage.

For product specific protocols and a complete listing of recommended companion products, please see the product web page at www.cellsignal.com.