

# Caspase-3 Control Cell Extracts

100 µl  
(10 western blots)

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**For Research Use Only. Not For Use In Diagnostic Procedures.**

Product Includes	Product #	Quantity
Caspase-3 Control Cell Extracts (Jurkat untreated)	64514	100 ul
Caspase-3 Control Cell Extracts (Jurkat +Cytochrome c)	83979	100 ul

**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.

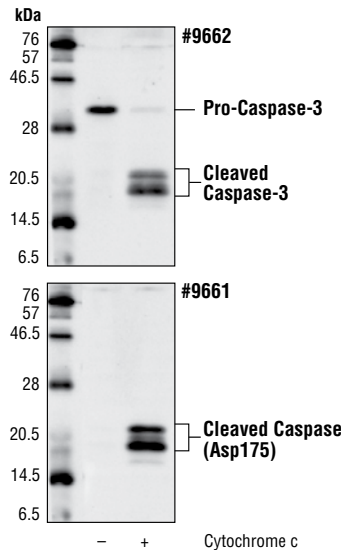
*Caspase-3 Control Cell Extracts (Jurkat +Cytochrome c):* Untreated Jurkat cells are lysed in Chaps cell extract buffer and a cytoplasmic fraction is generated. Extracts are treated with cytochrome c in vitro to generate a positive control for caspase cleavage. Supplied in SDS sample buffer.

**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:

- (1) Fernandes-Alnemri, T. et al. (1994) *J. Biol. Chem.* 269, 30761–30764.
- (2) Nicholson, D. W. et al. (1995) *Nature* 376, 37–43.



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.

Entrez-Gene ID #836  
Swiss-Prot Acc. #P42574

**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.**