Revision 4

Store at -20C

#9663

Caspase-3 Control Cell Extracts

Controls for 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 µl
Caspase-3 Control Cell Extracts (Jurkat +Cytochrome c)	83979	100 µl

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.

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 phenolred.
Store at –20°C, or at –80°C for long-term storage.

Background

Caspase-3 (CPP-32, Apopain, 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 the aspartic acid residue 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, 30761-4.
2. Nicholson, D.W. et al. (1995) *Nature* 376, 37-43.

Trademarks and Patents

Limited Uses