**BACKGROUND**

A unique family of cysteine proteases has been described that differs in sequence, structure and substrate specificity from any previously described protease family. This family, Ced-3/caspase-1, is comprised of caspase-1, caspase-2, caspase-3, caspase-4, caspase-6, caspase-7 (also designated Mch3, ICE-LAP3 or CMH-1), caspase-9 and caspase-10. Ced-3/caspase-1 family members function as key components of the apoptotic machinery and act to destroy specific target proteins which are critical to cellular longevity. Poly(ADP-ribose) polymerase plays an integral role in surveying for DNA mutations and double strand breaks. Caspase-3, caspase-7 and caspase-9, but not caspase-1, have been shown to cleave the nuclear protein PARP into an apoptotic fragment. Caspase-6, but not caspase-3, has been shown to cleave the nuclear lamins, which are critical to maintaining the integrity of the nuclear envelope and cellular morphology. Caspase-10 has been shown to activate caspase-3 and caspase-7 in response to apoptotic stimuli.

**REFERENCE**


**CHROMOSOMAL LOCATION**

Genetic locus: CASP9 (human) mapping to 1p36.21; Casp9 (mouse) mapping to 4 E1.

**SOURCE**

caspase-9 p35 (A-9) is a mouse monoclonal antibody raised against amino acids 100-270 mapping within an internal region of caspase-9 p35 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG<sub>2a</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

caspase-9 p35 (A-9) is available conjugated to agarose (sc-133109 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-133109 HRP), 200 µg/ml, for WB, IHC<sub>P</sub> and ELISA; to either phycoerythrin (sc-133109 PE), fluorescein (sc-133109 FITC), Alexa Fluor<sup>®</sup> 488 (sc-133109 AF488), Alexa Fluor<sup>®</sup> 546 (sc-133109 AF546), Alexa Fluor<sup>®</sup> 594 (sc-133109 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-133109 AF647), 200 µg/ml, for WB (RGB), IF, IHC<sub>P</sub> and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-133109 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-133109 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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**APPLICATIONS**

caspase-9 p35 (A-9) is recommended for detection of p35 subunit and precursor of caspase-9 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of procaspase-9: 46 kDa.

Molecular Weight of caspase-9 p35 activated form: 35 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HL-60 whole cell lysate: sc-2209 or RAW 264.7 whole cell lysate: sc-2211.

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**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.