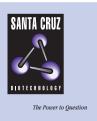
SANTA CRUZ BIOTECHNOLOGY, INC.

CED-9 (ce-280): sc-33737



BACKGROUND

Several proteins involved in regulating and executing programmed cell death have been identified in *C. elegans.* CED-2, which is similar to the human adaptor protein CrkII, as well as CED-5 and CED-7, which are orthologs of the mammalian DOCK180 and ABC transporter proteins, respectively, are involved in the engulfment of dying cells. CED-3, a member of the ICE protease/caspase family, and CED-4, a homolog of the mammalian Apaf-1, both promote apoptosis, whereas CED-9, a homolog of the mammalian Bcl-2 protein, inhibits cell death. EGL-1 and CED-6 both function as death-promoting proteins, with CED-6 playing a role in the engulfment of apoptotic cells. Ces-2 kills neurons by negatively regulating the protective activity of Ces-1, thereby controlling the programmed deaths of specific neurons.

REFERENCES

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- Yuan, J., et al. 1993. The *C. elegans* cell death gene CED-3 encodes a protein similar to mammalian Interleukin-1 beta-converting enzyme. Cell 75: 641-652.
- Hengartner, M.O., et al. 1994. *C. elegans* cell survival gene CED-9 encodes a functional homolog of the mammalian proto-oncogene Bcl-2. Cell 76: 665-676.
- 4. Wu, Y.C., et al. 1998. *C. elegans* phagocytosis and cell-migration protein CED-5 is similar to human DOCK180. Nature 392: 501-504.
- 5. Conradt, B., et al. 1998. The *C. elegans* protein EGL-1 is required for programmed cell death and interacts with the Bcl-2-like protein CED-9. Cell 93: 519-529.
- 6. Wu, Y.C., et al. 1998. The *C. elegans* cell corpse engulfment gene CED-7 encodes a protein similar to ABC transporters. Cell 93: 951-960.
- 7. Liu, Q.A., et al. 1998. Candidate adaptor protein CED-6 promotes the engulfment of apoptotic cells in *C. elegans*. Cell 93: 961-972.
- 8. Metzstein, M.M., et al. 1999. The *C. elegans* cell death specification gene ces-1 encodes a snail family zinc finger protein. Mol. Cell 4: 309-319.
- Reddien, P.W., et al. 2000. CED-2/Crkll and CED-10/Rac control phagocytosis and cell migration in *Caenorhabditis elegans*. Nat. Cell Biol. 2: 131-136.

SOURCE

CED-9 (ce-280) is a rabbit polyclonal antibody raised against amino acids 1-280 representing full length CED-9 of *C. elegans* origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

CED-9 (ce-280) is recommended for detection of CED-9 of *Caenorhabditis elegans* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 μ g per 100–500 μ g 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).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.