SANTA CRUZ BIOTECHNOLOGY, INC.

CAD (47-321): sc-4543 WB



BACKGROUND

The Ced/ICE or caspase family of cysteine proteases plays a pivotol role in mediating apoptosis through the proteolysis of specific targets. Among the targets are poly (ADP-ribose) polymerase (PARP), gelsolin, DFF-45 (also designated ICAD, for inhibitor of CAD) and the nuclear lamins. CAD (caspase-activated deoxyribo-nuclease), also designated CPAN (caspase-activated nuclease) and DFF40, is a DNase that is responsible for DNA degradation during apoptosis. CPAN is inhibited by DFF45/ICAD. Caspase-3 acts to dissociate CPAN from ICAD, allowing CPAN to enter the nucleus and degrade DNA.

REFERENCES

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SOURCE

CAD (47-321) is expressed in *E. coli* as a 58 kDa tagged fusion protein corresponding to amino acids 47-321 of CAD of human origin.

PRODUCT

CAD (47-321) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 μg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

CAD (47-321) is suitable as a Western blotting control for sc-5295, sc-8258, sc-8259 and sc-8342.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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