
Anti-CPAN

Cat #: HM1096
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Apoptosis is mediated by death domain containing adapter molecules and members of the caspase family of proteases. The death signals eventually cause the degradation of chromosomal DNA by activated DNase. A mouse DNase that causes DNA fragmentation was designated CAD, which stands for caspase activated deoxyribonuclease. The human homologue of mouse CAD was termed CPAN and DFF40. CPAN is inhibited by DFF45/ICAD. Upon cleavage of DFF45/ICAD by activated caspase, CPAN/DFF40/CAD is released and activated and eventually causes the degradation of DNA in the nuclei.

SPECIFICITY

This antibody recognizes CPAN of human, mouse and rat origin and can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

Full-length recombinant human CPAN protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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3. Halenbeck, R., MacDonald, H., Roulston, A., Chen, T.T., Conrpy, L., and Williams, L.T. 1998. CPAN, a human nuclease regulated by the caspase-sensitive inhibitor DFF45. *Curr. Biol.* 8: 537-540.
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6. Liu, X., Li, P., Widlak, P., Zou, H., Luo, X., Garrard, W.T. and Wang, X. (1998) The 40-kDa subunit of DNA fragmentation factor induces DNA fragmentation and chromatin condensation during apoptosis. *Proc. Natl. Acad. Sci. U.S.A.* 95, 8461-8466.

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