

DFF40/CAD (IN) Polyclonal Antibody

Product Specifications

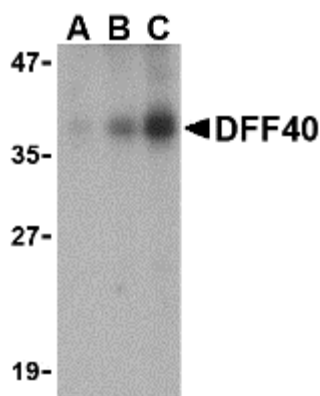
Catalog Number:	905-201
Host:	Rabbit
Species Reactivity:	Human, mouse, and rat
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 1 µg/mL IHC: 10 µg/mL
Predicted m.w.:	~40 kDa
Concentration:	See product label
Purification:	Affinity Purified
Format:	PBS, 0.02% sodium azide
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at -20°C
Immunogen:	Synthetic peptide derived from the sequence of human DFF40
Related Products:	
SAB-300	Goat anti-Rabbit IgG Polyclonal Antibody, HRP Conjugate
AAM-382	DFF45/ICAD Monoclonal Antibody (6B8)
AAP-350	DFF40/CAD Polyclonal Antibody
AAP-451	DFF45/ICAD Polyclonal Antibody
EKS-350	DNA Damage ELISA Kit
KAP-PI001	DNA-PK Polyclonal Antibody
905-205	DNase II (CT) Polyclonal Antibody
LYC-JK100	Jurkat Cell Lysate
LYC-JK101	Jurkat Cell Lysate (Heat Shocked)

Background:

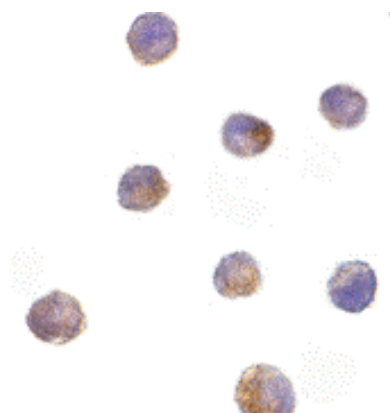
Apoptosis relates to many diseases, and follows induction by a family of cell death receptors and their ligands. Cell death signals transduced by death domain containing adaptor molecules and members of the caspase family of proteases cause the degradation of chromosomal DNA by activated DNase. DNA fragmentation fragment 40 (DFF40) is the human homolog of the mouse caspase activated deoxyribonuclease (CAD)¹⁻⁵. DFF45/ICAD, the inhibitory protein of DFF40/CAD^{1,2,6}, forms a complex with DFF40/CAD. Cleavage of DFF45/ICAD by Caspase-3 leads to DFF40/CAD's activation as a nuclease⁷.

References:

1. Enari, M., *et al.* (1998) *Nature* **391**, 43-50.
2. Sakahira, H., *et al.* (1998) *Nature* **391**, 96-99.
3. Halenbeck, R., *et al.* (1998) *Curr Biol.* **8**, 537-540.
4. Liu, X., *et al.* (1998) *Proc Natl Acad Sci USA* **95**, 8461-8466.
5. Mukae, N., *et al.* (1998) *Proc Natl Acad Sci USA* **95**, 9123-9128.
6. Liu, X., *et al.* (1997) *Cell* **89**, 175-184.
7. Wolf, B.B., *et al.* (1999) *J Biol Chem.* **274**, 30651-30656.



Western blot analysis of Jurkat cell lysate with DFF40 Polyclonal Antibody at 0.5 (A), 1 (B) and 2 (C) µg/mL



Immunocytochemistry of K562 cells with DFF40 Polyclonal Antibody at 10 µg/mL