

## Anti-DFF40/CAD (I18) Antibody

### ORDERING INFORMATION

**Catalog No.:** 2107

**Size:** 100ug IgG in PBS, pH 7.4, purified by immunoaffinity chromatography.

### BACKGROUND

Cell death signals are transduced by death domain-containing adapter molecules and members of the caspase family of proteases. These death signals finally cause the degradation of chromosomal DNA by activated DNase. A mouse Dnase that causes DNA fragmentation was identified recently and designated CAD (for caspase activated deoxy-ribonuclease). The human homologue of mouse CAD was more recently identified and termed CPAN, DFF40, and human CAD. DFF45/ICAD is the inhibitory protein of DFF40/CAD with which it forms complexes. Upon cleavage by activated caspase, DFF40/CAD is released and activated and eventually causes the degradation of DNA in the nuclei. Activation of DFF40/CAD is, which causes DNA degradation, is the hallmark of apoptotic cell death.

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to aa 147-164 near the center of murine CAD (accession no. NP\_031885). The sequence differs from human DFF40 by two amino acids.

**Host Species:** Rabbit

**Stabilizers:** None

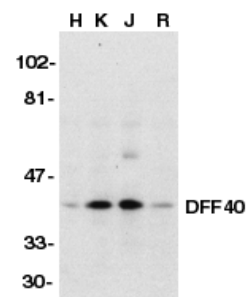
**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes human, mouse, and rat DFF40/CAD (40kDa).

### APPLICATIONS

*Immunoblotting:* use at 1ug/ml



Western blot analysis of DFF40/CAD in HeLa (H), K562 (K), Jurkat (J), and Raji (R) whole cell lysate with DFF40/CAD antibody at 1µg/ml.

*Positive control:* Whole cell lysate of K562 or Jurkat cells.

*Immunocytochemistry:* use at 5ug/ml.



Immunocytochemical staining of DFF40 in Jurkat cells with DFF antibody at 5µg/ml.

These are recommended concentrations. Enduser should determine optimal concentrations for their applications.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*