# DFF40 Antibody

Catalog No: #24075

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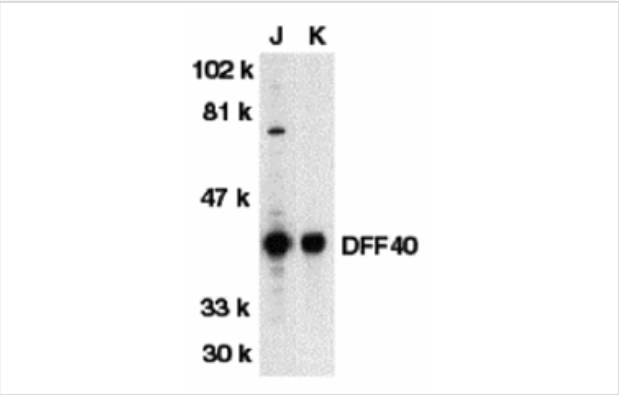
## Description

| | |
|---|---|
| Product Name | DFF40 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Affinity chromatography purified via peptide column |
| Applications | ELISA WB ICC |
| Species Reactivity | Hu |
| Immunogen Type | Peptide |
| Immunogen Description | Raised against  a peptide corresponding to amino acids 3 to 18 of human DFF40. |
| Target Name | DFF40 |
| Other Names | CAD |
| Accession No. | Swiss-Prot:O54788Gene ID:13368 |
| Uniprot | O54788 |
| GeneID | 13368; |
| Concentration | 1mg/ml |
| Formulation | Supplied in PBS containing 0.02% sodium azide. |
| Storage | Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |

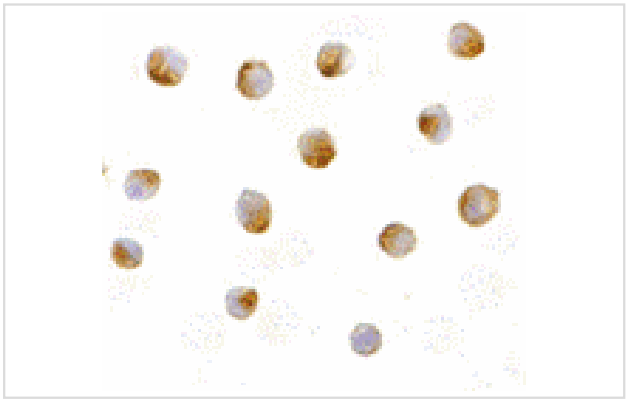
## Application Details

Predicted MW: 40 kd

## Images




Western blot analysis of DFF40 in Jurkat (J) and K562 (K) whole cell lysate with DFF40 antibody at 1:500 dilution.



Immunocytochemistry of DFF40 in Jurkat cells with DFF40 antibody at 5 ug/mL.

## Background

Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. 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 deoxyribonuclease. The human homologue of mouse CAD was more recently identified by three groups independently and termed CPAN, DFF40, and human CAD, respectively. DFF45/ICAD is the inhibitory protein of DFF40/CAD and forms complex with DFF40/CAD. Upon cleavage of DFF45/ICAD by activated caspase, DFF40/CAD is released and activated and eventually causes the degradation of DNA in the nuclei. Activation of DFF40/CAD, which causes DNA degradation, is the hallmark of apoptotic cell death.

Note: This product is for in vitro research use only