

# DFF45 Monoclonal Antibody

<b>CATALOG #:</b>	3050-100
<b>LOT #:</b>	_____
<b>HOST:</b>	Mouse
<b>ISOTYPE:</b>	IgG <sub>1</sub>
<b>CLONE:</b>	6B8SG
<b>IMMUNOGEN:</b>	Human DFF45 (a.a. 1-331)
<b>SPECIES REACTIVITY:</b>	Human

## ANTIBODY FORMULATION:

100 µg (500 µg/ml) in PBS containing 1 mg/ml BSA and 1.5 mM sodium azide and 50% glycerol.

## STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and refreeze at -70°C. Avoid repeated freeze/thaw cycles.

## DESCRIPTION:

During apoptosis, various stimuli activate a protease cascade of caspases that eventually cause degradation of chromosomal DNA. DFF45 (DNA fragmentation factor 45) is a downstream regulator of DNA degradation (DFF40). DFF40 is an apoptotic DNase with a high specific activity that exists in an inactive complex with DFF45 in living cells. Cleavage of DFF45, which is mediated by caspase-3, leads to DFF40 release where it then enters nucleus to function as a nuclease. DFF45 may inhibit the DNase activity of DFF40 and its nuclear translocation. Activation of DFF40 causes DNA degradation, a hallmark of apoptosis.

## APPLICATIONS AND USAGE:

The antibody can be used for Western blot analysis (1-2 µg/ml). However, the optimal dilutions should be determined individually.

## SPECIFICITY:

Recognizes 45 and 40 kDa proteins, corresponding to the apparent molecular weight of DFF45/ICAD<sub>L</sub> and DFF45/ICADs respectively.

**NOTE:** For Research Use Only! Not to be used in human.

## RELATED PRODUCTS:

### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione Fluorometric & Colorimetric Assay Kits
- Nitric Oxide Fluorometric & Colorimetric Assay Kits

### Signal Transduction

- Camp & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP and PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit

Antibodies & Recombinant Proteins (many)