

Datasheet for ABIN499742
anti-DFFA antibody (C-Term)



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2 Images

Overview

Quantity:	0.1 mg
Target:	DFFA
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DFFA antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human DFF45 (C-Terminus) Peptide
Isotype:	IgG
Specificity:	DFF45 antibody was raised against a peptide corresponding to amino acids 313 to 331 of human DFF45.
Purification:	DEAE

Target Details

Target:	DFFA
Alternative Name:	DFFA / ICAD (DFFA Products)
Background:	Apoptosis is related to many diseases and induced by a family of cell death receptors and their

Target Details

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 human 45 kDa DNA fragmentation factor (DFF45) was identified recently which was cleaved by caspase-3 during apoptosis. Mouse homologue of human DFF45 was identified as a DNase inhibitor designated ICAD (2,3). Upon cleavage of DFF45/ICAD, a caspase activated deoxyribonuclease (DFF40/CAD) is released and activated and eventually causes the degradation of DNA in the nuclei. Therefore, the cleavage of DFF45/ICAD, which causes DFF40/CAD activation and DNA degradation, is the hallmark of apoptotic cell death. Synonyms: DFF-45, DFF1, DFF45, DNA fragmentation factor 45 kDa subunit, DNA fragmentation factor subunit alpha, Inhibitor of CAD

Gene ID: 1676

NCBI Accession: [NP_004392](#)

UniProt: [O00273](#)

Pathways: [Apoptosis, Caspase Cascade in Apoptosis](#)

Application Details

Application Notes: ELISA. Western Blot: DFF45 antibody can be used for detection of DFF45 and one of the cleaved fragments of DFF45 at 1/1000 to 1/2000 dilution. A 45 kDa band can be detected in non-apoptotic cells. Immunocytochemistry. Immunoprecipitation: DFF45 antibody can be used for detection of DFF45 and one of the cleaved fragments of DFF45 at 1/1000 to 1/2000 dilution.

Other applications not tested.

Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

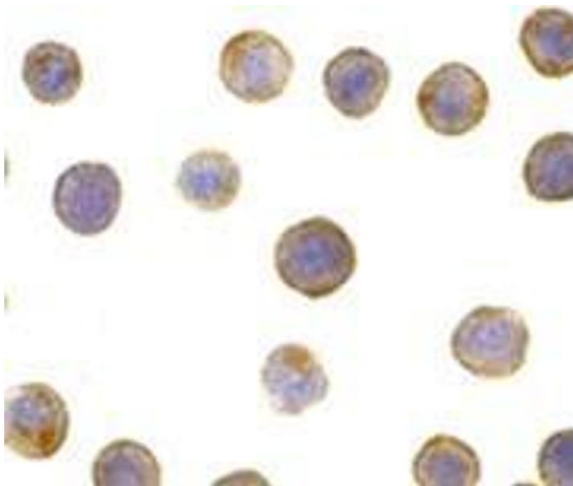
Buffer: PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

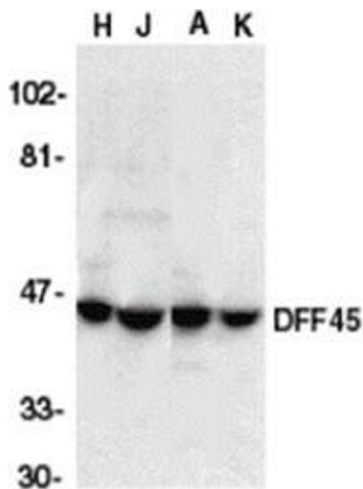
Storage: 4 °C

Storage Comment: Store the antibody undiluted at 2-8 °C.



Immunofluorescence

Image 1. Immunocytochemistry of DFF45 in HeLa cells with AP30289PU-N DFF45 antibody at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of DFF45 in HeLa (H), Jurkat (J), A431 (A), and K562 (K) whole cell lysate with AP30289PU-N DFF45 antibody at 1/1000 dilution.