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Datasheet for 600-401-AV1

DFF40 Antibody

Overview

Description:	Anti-DFF40 (RABBIT) Antibody - 600-401-AV1
Item No.:	600-401-AV1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

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.
Synonyms:	DFF40 Antibody, CAD, CPAN, 40kDa, DFF40, Didff, 5730477D02Rik, Cad, DNA fragmentation factor subunit beta, Caspase-activated deoxyribonuclease, CAD
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Dffb
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-DFF40 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the internal region of murine CAD. The sequence differs from human DFF40 by two amino acids.
Purity/Specificity:	Anti-DFF40 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with DFF40 from other sources has not been determined.
Relevant Links:	• UniProtKB - O54788 • GeneID - 13368 • NCBI - NP_031885

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DFF40 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry, and immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 39 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5 µg/mL

Formulation

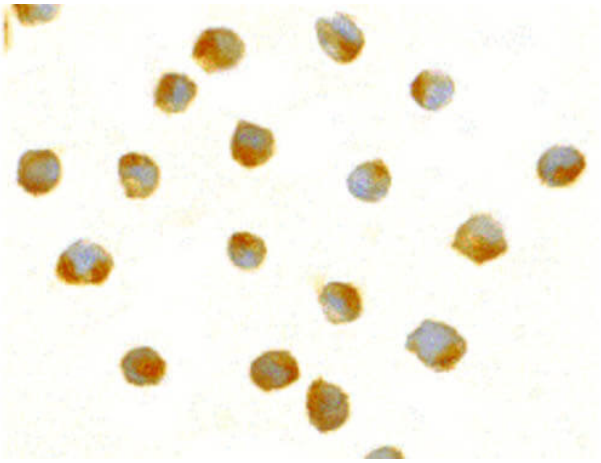
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

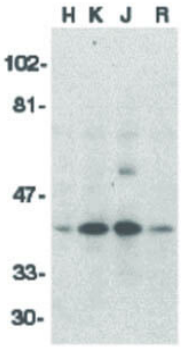
Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunocytochemistry
Immunocytochemistry of DFF40 antibody. Cells: Jurkat cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DFF40 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DFF40 is nuclear and cytoplasmic. Staining: DFF40 as precipitated brown signal with hematoxylin blue nuclear counterstain.



Western Blot
Western Blot of DFF40 antibody. Lane 1: HeLa whole cell lysate. Lane 2: K562 whole cell lysate. Lane3: Jurkat whole cell lysate. Lane4: Raji whole cell lysate. Load: 35 µg per lane. Primary antibody: DFF40 antibody at 1:500 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 39.4 kDa, 41 kDa for DFF40. Other band(s): DFF40 splice variants and isoforms.

Disclaimer

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