

Datasheet for 200-401-AV4**DFF45 Antibody****Overview**

Description:	Anti-DFF45 (RABBIT) Antibody - 200-401-AV4
Item No.:	200-401-AV4
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
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 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. 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:	DNA fragmentation factor subunit alpha, DNA fragmentation factor 45 kDa subunit, DFF-45, Inhibitor of CAD, ICAD, DFF1, DFF45, H13, DFFA
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DFFA
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DFF45 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the C-terminus of human DFF45.
Purity/Specificity:	Anti-DFF45 Antibody is purified by DEAE purification methods. Cross reactivity with DFF45 from other sources has not been determined.
Relevant Links:	• UniProtKB - 000273 • GeneID - 1676 • NCBI - NP_004392

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DFF45 Antibody has been tested for use in ELISA, Western Blotting, Immunofluorescence, and Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. A 45 kDa band can be detected in non-apoptotic cells. Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
WB:	0.5-1 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

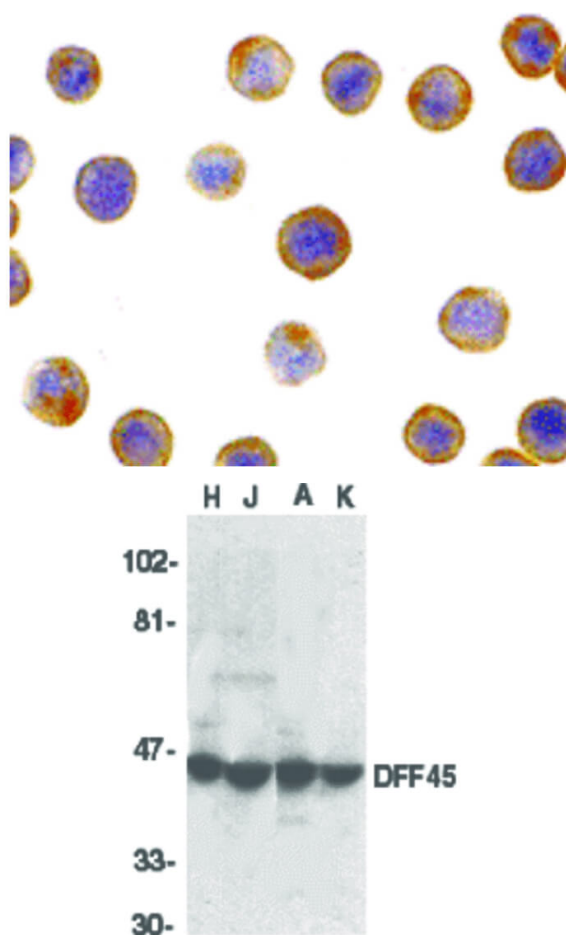
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunocytochemistry of Rabbit anti-DFF45 antibody. Cell Lysate: HeLa cell lysate. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-DFF45 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: DFF45 is cytoplasmic. Staining: DFF45 as precipitated brown signal with hematoxylin purple nuclear counterstain.

Western Blot

Western Blot of Rabbit anti-DFF45 antibody. Lane 1: HeLa whole cell lysate (H). Lane 2: Jurkat whole cell lysate (J). Lane 3: A431 whole cell lysate (A). Lane 4: K562 whole cell lysate (K). Load: 35 µg per lane. Primary antibody: anti-DFF45 antibody at 1:1000 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: 36.5 kDa, 47 kDa for DFF45. Other band(s): None.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.