BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-DFF45 DFFA Antibody

Catalog Number: A03671

About DFFA

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.

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Overview

Product Name	Anti-DFF45 DFFA Antibody
Reactive Species	Human
Description	Boster Bio Anti-DFF45 DFFA Antibody (Catalog # A03671). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	DFF45 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	DFF45 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O00273

Technical Details

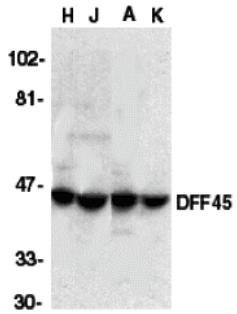
Immunogen	DFF45 antibody was raised against a 19 amino acid peptide near the carboxy terminus of human DFF45. The immunogen is located within the last 50 amino acids of DFF45.
Predicted Reactive Species	Mouse

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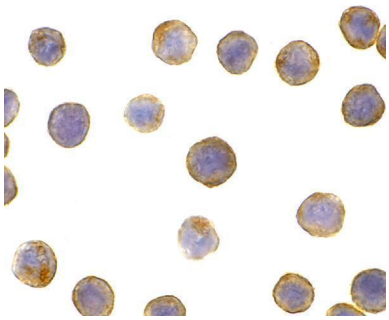
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	DFF45 Antibody is Antibody is DEAE purified.
Suggested Dilutions	DFF45 antibody can be used for detection of DFF45 and one of the cleaved fragments of DFF45 by Western blot at at 0.5 - 1 ug/mL and for immunoprecipitation. A 45 kDa band can be detected in non-apoptotic cells. Antibody can also be used for immunocytochemistry starting at 5 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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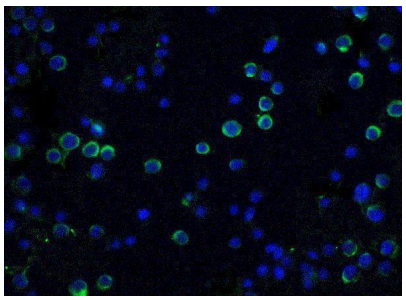
Anti-DFF45 DFFA Antibody (A03671) Images



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



Immunocytochemistry of DFF45 in HeLa cells with DFF45 antibody at 5 ug/mL.



Immunofluorescence of DFF45 in Hela cells with DFF45 antibody at 20 ug/mL.Green: DFF45 Antibody (A03671) Blue: DAPI staining

Anti-DFF45 DFFA Antibody

For Research Use Only. Not for use in diagnostic procedures.