

Product datasheet for **AP22848PU-N**

ICAD (DFFA) (2-21) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on Paraffin Sections: 10 µg/ml. Western Blot: 1/1000 - 1/2000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	DFFA antibody was raised against synthetic peptide
Specificity:	This antibody reacts to DNA Fragmentation Factor, 45kDa, Alpha Polypeptide (DFF45/ICAD) (DFFA).
Formulation:	PBS containing 0.02% sodium azide. State: Purified State: Liquid purified Ig fraction
Purification:	DEAE-column Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	DNA fragmentation factor subunit alpha
Database Link:	Entrez Gene 1676 Human O00273



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Background:

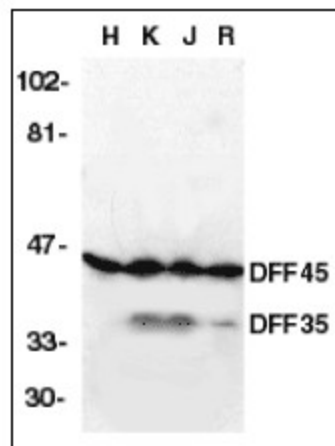
Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. These death signals finally cause the degradation of chromosomal DNA by activated DNase. A human 45 kD DNA fragmentation factor (DFF45) was identified recently that was cleaved by caspase-3 during apoptosis. Mouse homologue of human DFF45 was identified as a DNase inhibitor designated ICAD. DFF45/ICAD have short forms that were termed DFF35 and ICADs, respectively. Upon cleavage of DFF45/ICAD, the 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:

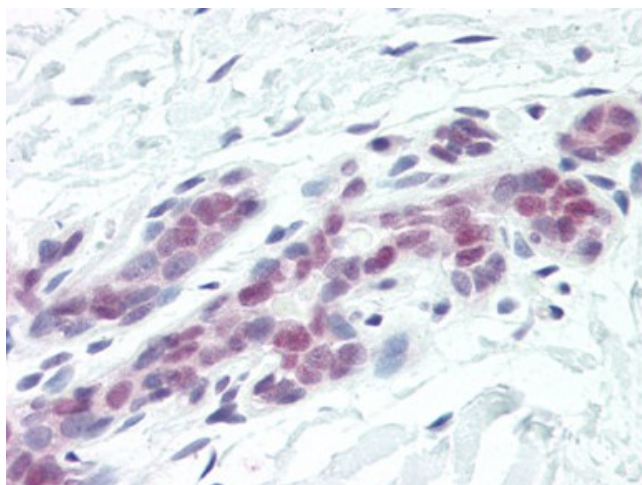
DFF1, DFF45, DFF-45

Protein Pathways:

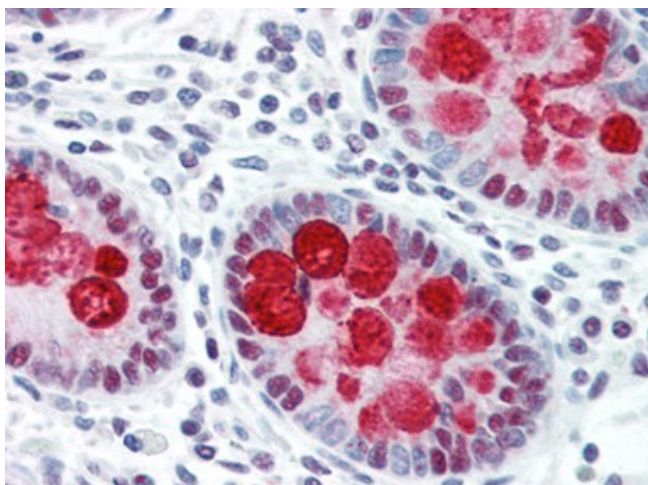
Apoptosis

Product images:

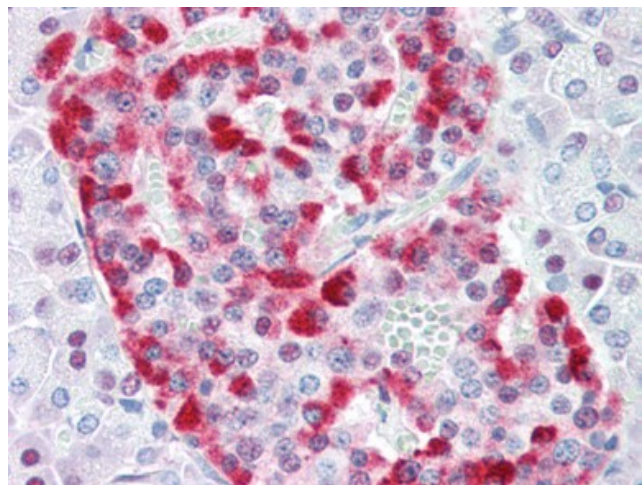
Western blot analysis of DFF45/35 in HeLa (H), K562 (K), Jurkat (J), and Raji (R) whole cell lysate with anti-DFF45/35 (AP22848PU-N, NT) at 1/1000 dilution.



Human Breast (formalin-fixed, paraffin-embedded) stained with DFFA antibody AP22848PU-N at 10 ug/ml followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Colon (formalin-fixed, paraffin-embedded) stained with DFFA antibody AP22848PU-N at 10 ug/ml followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Pancreas (formalin-fixed, paraffin-embedded) stained with DFFA antibody AP22848PU-N at 10 ug/ml followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.