

Product Name: ICAD Rabbit Polyclonal Antibody
Catalog #: APRab12335



Summary

Production Name	ICAD Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, WB,
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	DFFA
Alternative Names	DFFA; DFF1; DFF45; H13; DNA fragmentation factor subunit alpha; DNA fragmentation factor 45 kDa subunit; DFF-45; Inhibitor of CAD; ICAD
Gene ID	1676.0
SwissProt ID	O00273. The antiserum was produced against synthesized peptide derived from human DFFA. AA range: 151-200

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	36kD

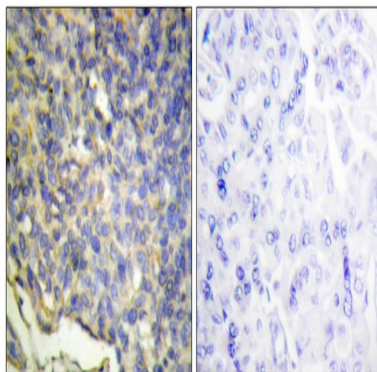
Background

Apoptosis is a cell death process that removes toxic and/or useless cells during mammalian development. The apoptotic process is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved by caspase-3. The cleaved fragments of DFFA dissociate from DFFB, the active component of DFF. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008],function:Inhibitor of the caspase-activated DNase (DFF40),,PTM:Caspase-3 cleaves DFF45 at 2 sites to generate an active factor.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 CIDE-N domain.,subunit:Heterodimer of DFFA and DFFB,.

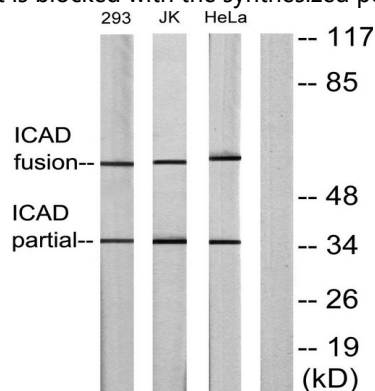
Research Area

Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;

Image Data



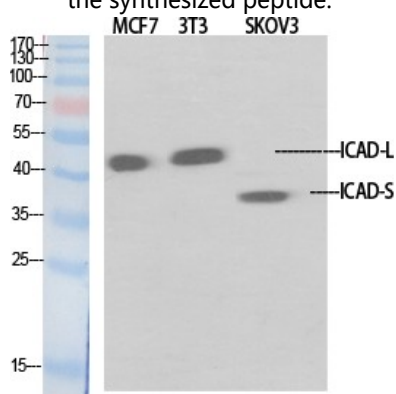
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using DFFA Antibody. The picture on the right is blocked with the synthesized peptide.



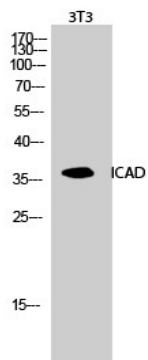
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Western blot analysis of lysates from Jurkat, 293, and HeLa cells, using DFFA Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using ICAD Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of 3T3 cells using ICAD Polyclonal Antibody diluted at 1: 1000

Note

For research use only.