



ICAD Polyclonal Antibody

Catalog No	BYab-00422
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	DFFA
Protein Name	DNA fragmentation factor subunit alpha
Immunogen	The antiserum was produced against synthesized peptide derived from human DFFA. AA range:151-200
Specificity	ICAD Polyclonal Antibody detects endogenous levels of ICAD protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DFFA; DFF1; DFF45; H13; DNA fragmentation factor subunit alpha; DNA fragmentation factor 45 kDa subunit; DFF-45; Inhibitor of CAD; ICAD
Observed Band	36kD
Cell Pathway	Cytoplasm.
Tissue Specificity	Breast,Coronary artery,Epithelium,Eye,Kidney,Skeletal muscle,
Function	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.,
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

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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],

matters needing attention

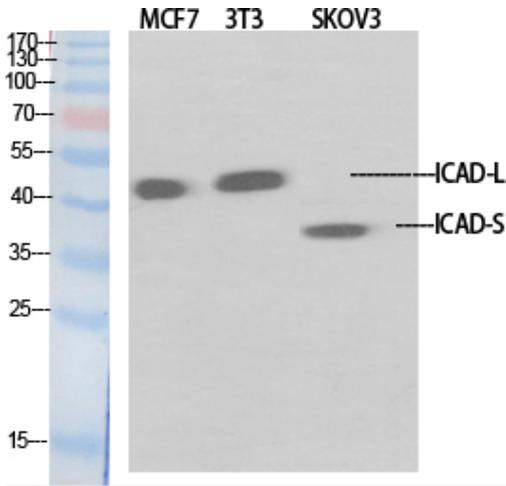
Avoid repeated freezing and thawing!

Usage suggestions

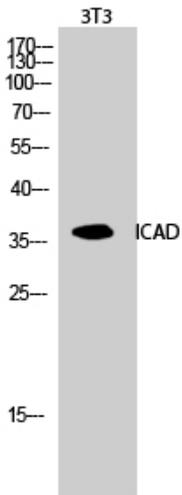
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



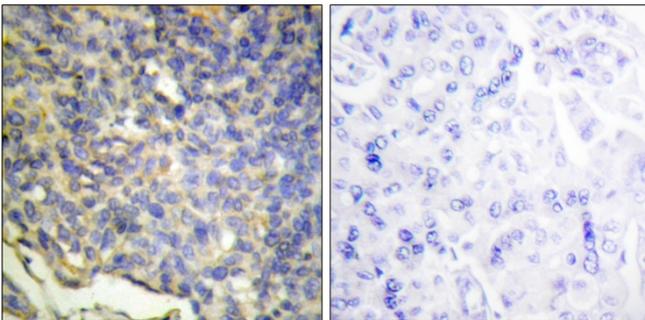
Products Images



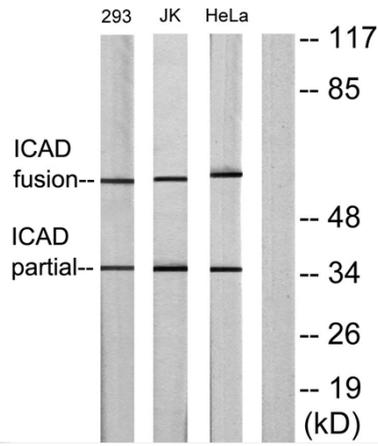
Western Blot analysis of various cells using ICAD Polyclonal Antibody diluted at 1:1000



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



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



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.