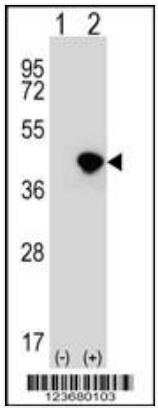
DFFA Antibody – Rabbit Polyclonal

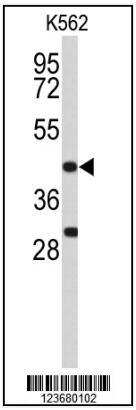
PRODUCT OVERVIEW

Product Name	DFFA, Polyclonal Antibody
Full Product Name	DFFA, CT (DFFA, DFF1, DFF45, DNA fragmentation factor subunit alpha, DNA fragmentation factor 45kD subunit, Inhibitor of CAD) (FITC)
Product Gene Name	anti-DFFA antibody
Product Synonym Names	DFFA; DFF1; DFF45; DNA fragmentation factor subunit alpha; DNA fragmentation factor 45kD subunit; Inhibitor of CAD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	36,522 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (10520588..10532613, complement). Location: 1p36.3-p36.2
OMIM	601882
3D Structure	ModBase 3D Structure for O00273
Immunogen	DFFA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 302~331 amino acids from the C-terminal region of human DFFA.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-DFFA antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-DFFA antibody	Western Blot (WB), FLISA
Application Notes for anti-DFFA antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-DFFA antibody	DFFA 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.
Product References and Citations for anti-DFFA antibody	Ninios, Y.P., et.al., Apoptosis 15 (2), 128-138 (2010). Banas, T., et.al., Eur. J. Obstet. Gynecol. Reprod. Biol. 146 (1), 87-91 (2009). Trynka, G., et.al., Gut 58 (8), 1078-1083 (2009).
Other Notes	Small volumes of anti-DFFA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DFFA purchase	MBS6291808 is an antibody targeting DFFA. Also known as DFFA, CT (DFFA, DFF1, DFF45, DNA fragmentation factor subunit alpha, DNA fragmentation factor 45kD subunit, Inhibitor of CAD) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DFFA antibody
Western blot analysis of DFFA (arrow) using rabbit polyclonal DFFA Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DFFA gene.



Western Blot (WB) of anti-DFFA antibody
Western blot analysis of DFFA Antibody (C-term) in K562 cell line lysates (35ug/lane). DFFA (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DFFA. It may not necessarily be applicable to this product.

NCBI GI #	4758148
NCBI GeneID	1676
NCBI Accession #	NP_004392.1
UniProt Primary Accession #	O00273
UniProt Secondary Accession #	Q5T6G5; Q5T6G6; Q96I97; Q9Y6C6
UniProt Related Accession #	O00273
GenBank Nucleotide #	NM_004401.2
NCBI Official Full Name	DNA fragmentation factor subunit alpha isoform 1
NCBI Official Synonym Full Names	DNA fragmentation factor, 45kDa, alpha polypeptide
NCBI Official Symbol	DFFA
NCBI Official Synonym Symbols	DFF1; ICAD; DFF-45
UniProt Protein Name	DNA fragmentation factor subunit alpha
UniProt Synonym Protein Names	DNA fragmentation factor 45 kDa subunit; DFF-45; Inhibitor of CAD

Protein Family	DNA fragmentation factor
UniProt Gene Name	DFFA
UniProt Synonym Gene Names	DFF1; DFF45; DFF-45; ICAD
UniProt Entry Name	DFFA_HUMAN
NCBI Protein Information	DNA fragmentation factor subunit alpha; DFF45; inhibitor of CAD; DNA fragmentation factor 45 kDa subunit
NCBI Summary for DFFA	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]
UniProt Comments for DFFA	DFFA: Inhibitor of the caspase-activated DNase (DFF40). Heterodimer of DFFA and DFFB. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase Chromosomal Location of Human Ortholog: 1p36.3-p36.2 Cellular Component: nucleoplasm; nuclear chromatin; cytoplasm; lipid particle; nucleus; cytosol Molecular Function: protein binding Biological Process: positive regulation of apoptosis; apoptosis; DNA fragmentation during apoptosis; cell structure disassembly during apoptosis
Research Articles on DFFA	**1.** mRNA splicing is actively driven toward the pro-apoptotic isoforms of Bim, Bcl-x, and ICAD in Pnn-depleted MCF-7 cells.
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