

Recombinant Full Length Human DFFA Protein, GST-tagged

Cat. No. DFFA-2480HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human DFFA full-length ORF (NP_004392.1, 1 a.a. - 331 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	331 amino acids
Description	<p>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]</p>
Molecular Mass	62.9 kDa
AA Sequence	MEVTGDAGVPESGEIRTLKPCLLRRNYSREQHGVAASCLEDLRKACDILAIKSLT PVTLVLAEDGTIVDDDDYFLCLPSNTKFVALASNEKWAYNNSDGGTAWISQESFDVD

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ETDSGAGLKWKNVARQLKEDLSSIILLSEEDLQMLVDAPCSDLAQELRQSCATVQRL
 QHTLQQVLDQREEVRQSKQLLQLYLQALEKEGSLLSKQEESKAAFGEEVDAVDTGI
 SRETSSDVALASHILTALREKQAPELSLSSQDLELVTKEDPKALAVALNWDIKKTETV
 QEACERELALRLQQTQSLHSLRSISASKASPPGDLQNPKRARQDPT

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	DFFA DNA fragmentation factor, 45kDa, alpha polypeptide [Homo sapiens]
Official Symbol	DFFA
Synonyms	DFFA; DNA fragmentation factor, 45kDa, alpha polypeptide; DNA fragmentation factor, 45 kD, alpha polypeptide; DNA fragmentation factor subunit alpha; DFF 45; DFF1; DFF45; DNA fragmentation factor; 45 kD; alpha subunit; ICAD; inhibitor of CAD; DNA fragmentation factor 45 kDa subunit; DFF-45;
Gene ID	1676
mRNA Refseq	NM_004401

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Protein Refseq	NP_004392
MIM	601882
UniProt ID	O00273

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