

Recombinant Full Length Human DFFB Protein, GST-tagged

Cat. No. DFFB-2481HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DFFB full-length ORF (NP_004393.1, 1 a.a. - 338 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	338 amino acids
Description	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. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene but the biological validity of some of these variants has not been determined. [provided by RefSeq, Sep 2013]
Molecular Mass	65.5 kDa
AA Sequence	MLQKPKSVKLRALRSPRKFGVAGRSCQEVLRKGCLRFQLPERGSRLCLYEDGTELT EDYFPSVPDNAELVLLTLGQAWQGYVSDIRRFLSAFHEPQVGLIQAAQQLLCDEQAP

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QRQRLLADLLHNVSQNIAAETRAEDPPWFEGLESRFQSKSGYLRYSCESTRIRSYLRE
VSSYPSTVGAEAEQEEFLRVLGSMCQRLRSMQYNGSYFDRGAKGGSRLCTPEGWF
SCQGPFDMDSCLSRHSINPYSNRESRILFSTWNLDHIIKKRTIIPTLVEAIKEQDGRE
VDWEYFYGLLFTSENCLKLVHIVCHKKTTHKLNCDPSRIYKPQTRLKRKQPVRKRQ

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 DFFB DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase)
[Homo sapiens]

Official Symbol DFFB

Synonyms DFFB; DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase); DNA fragmentation factor subunit beta; CAD; CPAN; DFF 40; DFF40; caspase-activated DNase; caspase-activated nuclease; caspase-activated deoxyribonuclease; DNA fragmentation factor 40 kDa subunit; DFF2; DFF-40;

Gene ID 1677

mRNA Refseq NM_004402

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Protein Refseq	NP_004393
MIM	601883
UniProt ID	O76075

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