



Human DFFB peptide (DAG-P0342)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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]

Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 CIDE-N domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	DFFB DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase) [Homo sapiens (human)]
Official Symbol	DFFB

Synonyms	DFFB; DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase); CAD; CPAN; DFF2; DFF40; DFF-40; DNA fragmentation factor subunit beta; caspase-activated DNase; caspase-activated nuclease; caspase-activated deoxyribonuclease; DNA fragmentation factor 40 kDa subunit;
Entrez Gene ID	1677
mRNA Refseq	NM_001282669.1
Protein Refseq	NP_001269598.1
UniProt ID	B4DZS0
Chromosome Location	1p36.3
Pathway	Activation of DNA fragmentation factor, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis Modulation and Signaling, organism-specific biosystem; Apoptosis induced DNA fragmentation, organism-specific biosystem; Apoptotic execution phase, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem; FAS pathway and Stress induction
Function	DNA binding; deoxyribonuclease activity; enzyme binding; nicotinate phosphoribosyltransferase activity;