

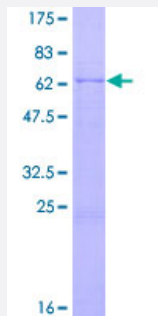
Full-Length

## DFFB (Human) Recombinant Protein (P01)

Catalog # H00001677-P01

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human DFFB full-length ORF ( NP\_004393.1, 1 a.a. - 338 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MLQKPKSVKLRALRSPRKFGVAGRSCQEVLRKGCLRFQLPERGSRLCLYEDGTELTEDYFPSVP  
DNAELVLLTLGQAWQGYVSDIRRFLSAFHEPQVGLIQAAQQLLCDEQAPQRQRLLADLLHNVSQN  
IAAETRAEDPPWFEGLESRFQSKSGYLRYSCESRIRSYLREVSSYPSTVGAEAEQEEFLRVLGSMC  
QRLRSMQYNGSYFDRGAKGGSRLCTPEGWFSCQGPFDMDSCLSRHSINPYSNRESRILFSTWNL  
DHIEKKRTIPTLVEAIKEQDGREVDWEYFYGLLFTSENCLKLVHIVCHKKTTHKLNCDPSRYKPQTR  
LKRKQPVRKRQ

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

65.5

#### Interspecies Antigen Sequence

Mouse (77); Rat (77)

#### Preparation Method

[in vitro wheat germ expression system](#)

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

#### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — DFFB

**Entrez GeneID**[1677](#)**GeneBank Accession#**[NM\\_004402.2](#)**Protein Accession#**[NP\\_004393.1](#)**Gene Name**

DFFB

**Gene Alias**

CAD, CPAN, DFF-40, DFF2, DFF40

**Gene Description**

DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase)

**Omim ID**[601883](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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 these variants has not been determined. [provided by RefSeq]

**Other Designations**

DNA fragmentation factor, 40 kD, beta polypeptide|DNA fragmentation factor, 40 kD, beta polypeptide (caspase-activated DNase)|DNA fragmentation factor, 40 kD, beta subunit|OTTHUMP00000003633|caspase-activated deoxyribonuclease|caspase-activated nuclease

## Pathway

- [Apoptosis](#)