

DFFA Synthetic Human DNA Fragmentation Factor Alpha subunit (aa 2-21)(NT) Blocking Peptide

Catalog No. PX024BP Quantity: 50 µg

Alternate Names: DFF-45, DFF1, ICAD, DFF45, DNA fragmentation factor, 45 kD, alpha polypeptide, DNA

fragmentation factor, 45 kD, alpha subunit.

Description: Amino acids 2 to 21 of human DFF45/35.

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.

Gene ID: 1676

Application: The peptide is used for blocking the activity of anti-DFF45/35. Incubating the peptide with

equal volume of antibody for 30 min at 37°C usually completely blocks the antibody

activity in Western blotting.

Formulation: It is supplied as 200 μg/ml, 50 μg/vial, in PBS pH7.2 (10 mM NaH₂PO₄, 10 mM,

Na₂HPO₄, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide.. **Precaution:** Sodium azide is a poisonous and hazardous substance which

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should be handled by trained staff only.

Sequence: EVTGDAGVPESGEIRTLKPC

Storage & Stability: Store at -20°C, stable for one year.

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