

# Recombinant Human DAP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** DAP3-6475H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | DAP3 MS Standard C13 and N15-labeled recombinant protein (NP_387506) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | <p>Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that also participates in apoptotic pathways which are initiated by tumor necrosis factor-alpha, Fas ligand, and gamma interferon. This protein potentially binds ATP/GTP and might be a functional partner of the mitoribosomal protein S27. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. Pseudogenes corresponding to this gene are found on chromosomes 1q and 2q.</p> |
| <b>Molecular Mass</b>   | 45.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>    | MMLKGITRLISRIHKLDPGRFLHMGQTQARQSIAAHLDNQVPVESPRAISRTNENDPAK<br>HGDQHEGQHYNISPQDLETVPFPHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKN<br>TSFAYPAIRYLLYGEKGTGKTLSLCHVIHFCAKQDWLILHIPDAHLWVKNCRDLLQSS<br>YNKQRFDPLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLGEVVEQ<br>GITRVRNATDAVGIVLKEKLRQSSLGMFHLVAVDGINALWGRTTLKREDKSPIAPEE<br>LALVHNLRKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPI<br>LVSNNPKFEFESCIQYYLENNWLQHEKAPTEEGKKELLFLSNANPSLLERHCAYLTR<br>TRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                   |

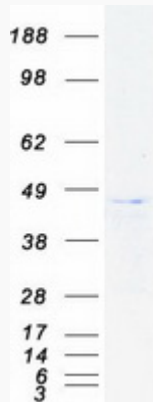
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DAP3 death associated protein 3 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b> | DAP3                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | DAP3; death associated protein 3; 28S ribosomal protein S29, mitochondrial; bMRP 10; DAP 3; DKFZp686G12159; MGC126058; MGC126059; mitochondrial 28S ribosomal protein S29; MRP S29; MRPS29; S29mt; death-associated protein 3; ionizing radiation resistance conferring protein; DAP-3; MRP-S29; bMRP-10; FLJ12817; |

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|----------------|-------------------------------------------------------------------------------------|
| Gene ID        | 7818                                                                                |
| mRNA Refseq    | NM_033657                                                                           |
| Protein Refseq | NP_387506                                                                           |
| MIM            | 602074                                                                              |
| UniProt ID     | P51398                                                                              |
| SDS-PAGE       |  |