

## Product datasheet for **TA336396**

### DAP3 Mouse Monoclonal Antibody [Clone ID: 42C617.1.2]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | 42C617.1.2  |
| Applications:         | WB  |
| Recommended Dilution: | Western Blot: 3-5 ug/ml   |
| Reactivity:           | Human, Mouse  |
| Host:                 | Mouse   |
| Isotype:              | IgG   |
| Clonality:            | Monoclonal  |
| Immunogen:            | The antibody was raised against a synthetic peptide corresponding to amino acids 51-66 of human DAP-3 protein.                        |
| Formulation:          | PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.  |
| Concentration:        | lot specific  |
| Purification:         | Protein G purified  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | death associated protein 3  |
| Database Link:        | <a href="#">NP_387506</a><br><a href="#">Entrez Gene 65111 Mouse</a> <a href="#">Entrez Gene 7818 Human</a><br><a href="#">P51398</a> |



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**Background:**

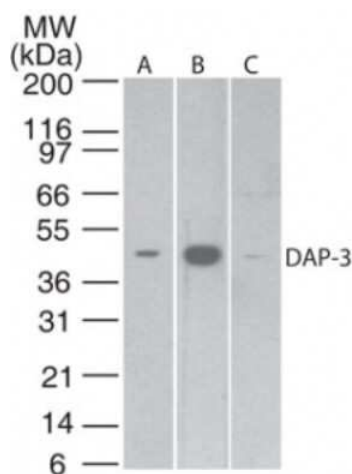
Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organisms. Recently, five novel apoptotic genes (named DAP genes for: Death Associated Proteins) have been identified that code for proteins, which display a diverse spectrum of biochemical activities. These include a novel type of calcium/calmodulin-regulated kinase which carries ankyrin repeats and a death domain (DAP-kinase), a nucleotide-binding protein (DAP-3), a small proline-rich cytoplasmic protein (DAP-1), and a novel homolog of the eIF4G translation initiation factor (DAP-5). DAP-3 has an ATP/GTP binding motive (P-loop) and has been isolated from human and mouse, and named as hDAP-3 and mDAP-3 (Death Associated Protein-3), respectively. Sequence analysis revealed an 82% amino acid identity between human and mouse protein. In situ hybridization and northern blot analysis showed an abundant mRNA expression with a pronounced expression in highly proliferative epithelial compartments. Overexpression of DAP-3 leads to cytochrome c release and induction of cell death. DAP-3 mediated apoptosis was shown to depend on a functional P-loop. mDAP-3 is localized to the mitochondrial matrix and in contrast to cytochrome c, retained its mitochondrial localization during apoptosis induction.

**Synonyms:**

bMRP-10; DAP-3; MRP-S29; MRPS29

**Protein Families:**

Druggable Genome

**Product images:**


Western Blot: DAP3 Antibody (42C617.1.2)  
TA336396 - Analysis of DAP-3 in A) human brain,  
B) Jurkat and C) NIH 3T3 lysate using this antibody  
at 5 ug/ml.