

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:	NP_387506 Entrez Gene 65111 Mouse Entrez Gene 7818 Human P51398



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Background:

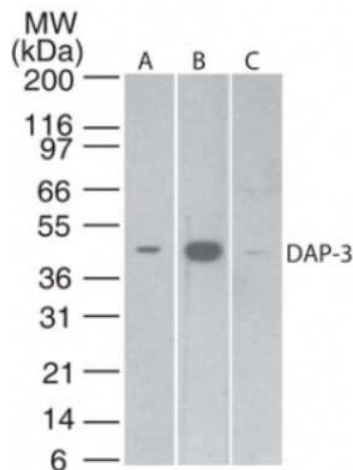
Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organisms. Recently, five novel apoptotic genes (named DAP genes for: Death Associated Proteins) have been identified that code for proteins, which display a diverse spectrum of biochemical 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.