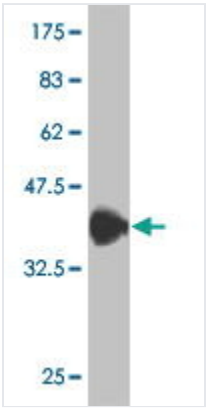
DAP3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	DAP3, Monoclonal Antibody
Full Product Name	DAP3 (28S Ribosomal Protein S29, Mitochondrial, MRP-S29, S29mt, Death-associated Protein 3, DAP-3 Ionizing Radiation Resistance Conferring Pro MRPS29, DKFZp686G12159, MGC126058, MGC126059) APC
Product Gene Name	anti-DAP3 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3B7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DAP3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product centrifuge the original vial prior to removing the cap.
Molecular Weight	44kDa
OMIM	602074
3D Structure	ModBase 3D Structure for P51398
Immunogen	Partial recombinant corresponding to aa237-343 from DAP3 (NP_004623) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	TDAVGIVLKELKRQSSLGMFHLLVAVDGINALWGRTTLKREDKSPIAPEELALVHNLRKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDAL
Conjugate	APC
Product Categories/Family for anti-DAP3 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-DAP3 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-DAP3 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-DAP3 antibody	Mammalian mitochondrial ribosomal proteins help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a s 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 spec proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequenc homology. This protein is 28S subunit protein that also participates in apoptotic pathways which are initiated by tumor necrosis factor-alpha, Fas ligand gamma interferon. This protein potentially binds ATP/GTP and might be a functional partner of the mitoribosomal protein S27.
Other Notes	Small volumes of anti-DAP3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and add dry ice fee may apply.
Searchable Terms for DAP3 purchase	MBS6136160 is an antibody targeting DAP3. Also known as DAP3 (28S Ribosomal Protein S29, Mitochondrial, MRP-S29, S29mt, Death-associated P DAP-3 Ionizing Radiation Resistance Conferring Protein, MRPS29, DKFZp686G12159, MGC126058, MGC126059) APC. Reactive in Human. Host: M



Western Blot (WB) of anti-DAP3 antibody
Western Blot detection against Immunogen (37.88kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DAP3. It may not necessarily be applicable to this product.

NCBI GI #	4758118
NCBI GeneID	7818
NCBI Accession #	NP_004623
UniProt Primary Accession #	P51398
UniProt Related Accession #	P51398
GenBank Nucleotide #	NM_004632
NCBI Official Full Name	28S ribosomal protein S29, mitochondrial isoform 1
NCBI Official Synonym Full Names	death associated protein 3
NCBI Official Symbol	DAP3
NCBI Official Synonym Symbols	DAP-3; S29mt; MRPS29; MRP-S29; bMRP-10
UniProt Protein Name	28S ribosomal protein S29, mitochondrial
UniProt Synonym Protein Names	Death-associated protein 3; DAP-3; Ionizing radiation resistance conferring protein
Protein Family	28S ribosomal protein
UniProt Gene Name	DAP3
UniProt Synonym Gene Names	MRPS29; MRP-S29; S29mt; DAP-3
UniProt Entry Name	RT29_HUMAN

NCBI Protein Information	28S ribosomal protein S29, mitochondrial
NCBI Summary for DAP3	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. [provided by RefSeq, Dec 2010]
UniProt Comments for DAP3	DAP3: Involved in mediating interferon-gamma-induced cell death. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; Apoptosis; Mitochondrial Chromosomal Location of Human Ortholog: 1q22 Cellular Component: nucleoplasm; small ribosomal subunit; mitochondrion; mitochondrial inner membrane; mitochondrial ribosome; nucleolus; nucleus Molecular Function: protein binding Biological Process: apoptotic mitochondrial changes; mitochondrial translation; organelle organization and biogenesis
Research Articles on DAP3	**1.** DAP3 plays important roles in mitochondrial function and dynamics
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