DOCK3 Antibody

PRODUCT OVERVIEW

Product Name	DOCK3, Antibody
Full Product Name	DOCK3 Antibody
Product Gene Name	anti-DOCK3 antibody
Molecular Weight	233,103 Da
OMIM	603123
3D Structure	ModBase 3D Structure for Q8IZD9
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-DOCK3 antibody	MBS8503932 is an antibody targeting DOCK3. Also known as DOCK3 Antibody.
Other Notes	Small volumes of anti-DOCK3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, 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 additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DOCK3. It may not necessarily be applicable to this product.

NCBI GI #	31415870
NCBI GeneID	1795
NCBI Accession #	NP_004938.1
UniProt Primary Accession #	Q8IZD9
UniProt Secondary Accession #	O15017
UniProt Related Accession #	Q8IZD9
GenBank Nucleotide #	NM_004947.4
NCBI Official Full Name	dedicator of cytokinesis protein 3
NCBI Official Synonym Full Names	dedicator of cytokinesis 3
NCBI Official Symbol	DOCK3
NCBI Official Synonym Symbols	PBP; MOCA
UniProt Protein Name	Dedicator of cytokinesis protein 3
UniProt Synonym Protein Names	Modifier of cell adhesion; Presenilin-binding protein; PBP
Protein Family	Dedicator of cytokinesis protein
UniProt Gene Name	DOCK3
UniProt Synonym Gene Names	KIAA0299; MOCA; PBP
NCBI Protein Information	dedicator of cytokinesis protein 3

NCBI Summary for DOCK3	This gene is specifically expressed in the central nervous system (CNS). It encodes a member of the DOCK (dedicator of cytokinesis) family of guanine nucleotide exchange factors (GEFs). This protein, dedicator of cytokinesis 3 (DOCK3), is also known as modifier of cell adhesion (MOCA) and presenilin-binding protein (PBP). The DOCK3 and DOCK1, -2 and -4 share several conserved amino acids in their DHR-2 (DOCK homology region 2) domains that are required for GEF activity, and bind directly to WAVE proteins [Wiskott-Aldrich syndrome protein (WASP) family Verprolin-homologous proteins] via their DHR-1 domains. The DOCK3 induces axonal outgrowth in CNS by stimulating membrane recruitment of the WAVE complex and activating the small G protein Rac1. This gene is associated with an attention deficit hyperactivity disorder-like phenotype by a complex chromosomal rearrangement. [provided by RefSeq, Aug 2010]
UniProt Comments for DOCK3	Potential guanine nucleotide exchange factor (GEF). GEF proteins activate some small GTPases by exchanging bound GDP for free GTP. Its interaction with presenilin proteins as well as its ability to stimulate Tau/MAPT phosphorylation suggest that it may be involved in Alzheimer disease. Ectopic expression in nerve cells decreases the secretion of amyloid-beta APBA1 protein and lowers the rate of cell-substratum adhesion, suggesting that it may affect the function of some small GTPase involved in the regulation of actin cytoskeleton or cell adhesion receptors ().
Research Articles on DOCK3	**1.** Inhibition of Dock3 by Dock3 shRNA impaired the severity of status epilepticus in the acute stage and decreased the spontaneous recurrent seizures times in the chronic stage of lithium-pilocarpine model and decreased the expression of rac1-GTP.
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