DOCK8 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	DOCK8, Monoclonal Antibody
Full Product Name	DOCK8 Rabbit mAb
Product Gene Name	anti-DOCK8 antibody
Clonality	Monoclonal
Isotype	IgG
Clone Number	R05-7D3
Host	Rabbit
Species Reactivity	Human
Form/Format	50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purity/Purification	Affinity Purified
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	238,529 Da
OMIM	243700
3D Structure	ModBase 3D Structure for Q8NF50
Immunogen	Recombinant protein of human DOCK8
Product Categories/Family for anti-DOCK8 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DOCK8 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-DOCK8 antibody	WB: 1:500-1:1000 IF: 1:50-1:200
Related Product Information for anti-DOCK8 antibody	MBS8602674 is an antibody targeting DOCK8. Also known as DOCK8 Rabbit mAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-DOCK8 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 DOCK8. It may not necessarily be applicable to this product.

NCBI GI #	302129691
NCBI GeneID	81704
NCBI Accession #	NP_001180465.1
UniProt Primary Accession #	Q8NF50

UniProt Secondary Accession #	Q3MV16; Q5JPJ1; Q8TEP1; Q8WUY2; Q9BYJ5; Q9H1Q2; A2A350; A2BDF2; A4FU78; B7ZLP0; E9PH09
UniProt Related Accession #	Q8NF50
GenBank Nucleotide #	NM_001193536.1
NCBI Official Full Name	dedicator of cytokinesis protein 8 isoform 3
NCBI Official Synonym Full Names	dedicator of cytokinesis 8
NCBI Official Symbol	DOCK8
NCBI Official Synonym Symbols	MRD2; ZIR8; HEL-205
UniProt Protein Name	Dedicator of cytokinesis protein 8
Protein Family	Dedicator of cytokinesis protein
UniProt Gene Name	DOCK8
UniProt Entry Name	DOCK8_HUMAN
NCBI Protein Information	dedicator of cytokinesis protein 8; 1200017A24Rik; epididymis luminal protein 205
NCBI Summary for DOCK8	This gene encodes a member of the DOCK180 family of guanine nucleotide exchange factors. Guanine nucleotide exchange factors interact with Rho GTPases and are components of intracellular signaling networks. Mutations in this gene result in the autosomal recessive form of the hyper-IgE syndrome. Alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Jun 2010]
UniProt Comments for DOCK8	DOCK8: Potential guanine nucleotide exchange factor (GEF). GEF proteins activate some small GTPases by exchanging bound GDP for free GTP. Defects in DOCK8 are the cause of hyperimmunoglobulin E recurrent infection syndrome autosomal recessive (AR-HIES). It is a rare disorder of immunity characterized by immunodeficiency, recurrent infections, eczema, increased serum IgE, eosinophilia and lack of connective tissue and skeletal involvement. Defects in DOCK8 are the cause of mental retardation autosomal dominant type 2 (MRD2). Mental retardation is characterized by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. A chromosomal aberration disrupting DOCK8 has been found in a patient with mental retardation and ectodermal dysplasia. DOCK8 is disrupted in patients with mental retardation. A balanced translocation, t(X;9) (q13.1;p24). Belongs to the DOCK family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: GEFs; GEFs, misc.; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 9p24.3 Cellular Component: membrane; leading edge; cytosol Molecular Function: protein binding; guanyl-nucleotide exchange factor activity Biological Process: formation of immunological synapse; small GTPase mediated signal transduction; blood coagulation; positive regulation of GTPase activity Disease: Mental Retardation, Autosomal Dominant 2; Hyper-ige Recurrent Infection Syndrome, Autosomal Recessive
Research Articles on DOCK8	**1.** Two novel large deletions, del1-14 exons and del8-18 exons, of DOCK8 have been identified in two siblings with the adaptive immune deficiencies.
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