

Product datasheet for **TP762218**

DOCK2 (NM_004946) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human dedicator of cytokinesis 2 (DOCK2), Ala1544-End, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region(Ala1544-End) of DOCK2
Tag:	N-His
Predicted MW:	32.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004937
Locus ID:	1794
UniProt ID:	Q92608 , Q5XG91
RefSeq Size:	6050
Cytogenetics:	5q35.1
RefSeq ORF:	5490
Synonyms:	IMD40



[View online »](#)

Summary:

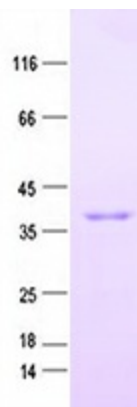
The protein encoded by this gene belongs to the CDM protein family. It is specifically expressed in hematopoietic cells and is predominantly expressed in peripheral blood leukocytes. The protein is involved in remodeling of the actin cytoskeleton required for lymphocyte migration in response to chemokine signaling. It activates members of the Rho family of GTPases, for example RAC1 and RAC2, by acting as a guanine nucleotide exchange factor (GEF) to exchange bound GDP for free GTP. Mutations in this gene result in immunodeficiency 40 (IMD40), a combined form of immunodeficiency that affects T cell number and function, also with variable defects in B cell and NK cell function. [provided by RefSeq, May 2018]

Protein Families:

Druggable Genome

Protein Pathways:

Chemokine signaling pathway, Fc gamma R-mediated phagocytosis

Product images:

Purified recombinant protein DOCK2 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.