DOCK8 Blocking Peptide (C-Term)
Synthetic peptide
Catalog # BP21948b

Specification

DOCK8 Blocking Peptide (C-Term) - Product Information

Primary Accession   [Q8NF50](#)

DOCK8 Blocking Peptide (C-Term) - Additional Information

Gene ID 81704

Other Names
Dedicator of cytokinesis protein 8, DOCK8

Target/Specificity
The synthetic peptide sequence is selected from aa 2076-2090 of HUMAN DOCK8

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DOCK8 Blocking Peptide (C-Term) - Protein Information

Name DOCK8

Function
Guanine nucleotide exchange factor (GEF) which specifically activates small GTPase CDC42 by exchanging bound GDP for free GTP (PubMed:22461490, PubMed:28028151). During immune responses, required for interstitial dendritic cell (DC) migration by locally activating CDC42 at the leading edge membrane of DC (By similarity). Required for CD4(+) T-cell migration in response to chemokine stimulation by promoting CDC42 activation at T cell leading edge membrane (PubMed:28028151). Is involved in NK cell cytotoxicity by controlling polarization of microtubule-organizing center (MTOC), and possibly regulating CCDC88B-mediated lytic granule transport to MTOC during cell killing (PubMed:25762780).

Cellular Location
Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection,

lamellipodium membrane; Peripheral membrane protein; Cytoplasmic side. Note=Enriched and co-localizes with GTPase CDC42 at the immunological synapse formed during T cell/antigen presenting cell cognate interaction. Translocates from the cytoplasm to the plasma membrane in response to chemokine CXCL12/SDF-1-alpha stimulation

Tissue Location
Expressed in peripheral blood mononuclear cells (PBMCs).

DOCK8 Blocking Peptide (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DOCK8 Blocking Peptide (C-Term) - Images

DOCK8 Blocking Peptide (C-Term) - Background

Potential guanine nucleotide exchange factor (GEF). GEF proteins activate some small GTPases by exchanging bound GDP for free GTP (By similarity).

DOCK8 Blocking Peptide (C-Term) - References

Takahashi K.,et al.Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.
Humphray S.J.,et al.Nature 429:369-374(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Jikuya H.,et al.DNA Res. 10:49-57(2003).
Jikuya H.,et al.Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.