Recombinant Human DOCK7, His-tagged

Cat. No. DOCK7-28082TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1823-2109 of Human DOCK7 with a N terminal His tag; predicted MWt 35 kDa:
Species	Human
Source	E.coli
ProteinLength	1823-2109 a.a.
Description	DOCK7 functions as a guanine nucleotide exchange factor (GEF), which activates Rac1 and Rac3 Rho small GTPases by exchanging bound GDP for free GTP. It does not have a GEF activity for CDC42. It is required for STMN1 Ser-15 phosphorylation during axon formation and consequently for neuronal polarization.
Conjugation	HIS
Form	Lyophilised:reconstitution with 69 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DLDEQEFVYKEPAITKLAEISHRLEGFYGERFGEDVVEVI KDSNPVDKCKLDPNKAYI QITYVEPYFDTYEMKDRITY FDKNYNLRRFMYCTPFTLDGRAHGELHEQFKRKTILT

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	T SHAFPYIKTRVNVTHKEEIILTPIEVAIEDMQKKTQELAF ATHQDPADPKMLQMVLQ GSVGTTVNQGPLEVAQVFLSE IPSDPKLFRHHNKLRLCFKDFTKRCEDALRKNKSLI GP DQKEYQRELERNYHRLKEALQPLINRKIPQLYKAVLPV TCHRDSFSRMSLRKMD L

GENE INFORMATION

Gene Name	DOCK7 dedicator of cytokinesis 7 [Homo sapiens]
Official Symbol	DOCK7
Synonyms	DOCK7; dedicator of cytokinesis 7; dedicator of cytokinesis protein 7; KIAA1771; ZIR2;
Gene ID	85440
mRNA Refseq	NM_033407
Protein Refseq	NP_212132
Uniprot ID	Q96N67
Chromosome Location	1p32.1
Pathway	ErbB2/ErbB3 signaling events, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	GTP binding; GTPase binding; Rac GTPase binding; guanyl-nucleotide exchange factor activity;

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