

Rabbit Anti-DOCK7/PE Conjugated antibody

SL11825R-PE

Product Name	Anti-DOCK7/PE
Chinese Name	PE 标记的胞质分裂专一蛋白 7 抗体
Alias	dedicator of cytokinesis 7; Dedicator of cytokinesis protein 7; Gm430; KIAA1771 ; MGC189434; mKIAA1771; RP23 329P19.2; ZIR2; DOCK7_HUMAN.
Research Area	Cell biology Neurobiology Signal transduction G protein-coupled receptor G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Chicken,Dog,Cow,Horse,Rabbit,Sheep) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	242kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DOCK7
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: DOCK 7 is a 2,140 amino acid protein that localizes to developing axons and contains one DHR-1 domain and one DHR-2 domain. Expressed in a variety of tissues, DOCK 7 functions as a guanine nucleotide exchange factor (GEF) that specifically activates Rac 1 and Rac 3 by catalyzing the exchange of bound GDP for free GTP. Multiple isoforms of DOCK 7 exist due to

alternative splicing events.

Function:

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.

Subunit:

Interacts with TSC1. Interacts with nucleotide-free RAC1 and RAC3.

Subcellular Location:

Cell projection,

Tissue Specificity:

Widely expressed.

Similarity:

Belongs to the DOCK family.

Contains 1 DHR-1 domain.

Contains 1 DHR-2 domain.

Database links:

[Entrez Gene: 85440](#) Human

[GenBank: BC016392.1](#) Human

[SwissProt: Q96N67](#) Human

[Unigene: 406156](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.