



DOCK7 Polyclonal Antibody

Catalog No	YP-Ab-05510
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	DOCK7 KIAA1771
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	DOCK7 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	dedicator of cytokinesis 7;ZIR2;DOCK7;DOCK7 KIAA1771;Dedicator of cytokinesis protein 7
Observed Band	238-243 kDa
Calculated Molecular Weight	2109 aa, 239 kDa
Cell Pathway	Cell projection, axon . Enriched in the developing axons of hippocampal neurons.
Tissue Specificity	Widely expressed.
Function	domain:The DHR-2 domain mediates GEF activity.,function:Functions as a guanine nucleotide exchange factor (GEF), which activates Rac1 and Rac3 Rho small GTPases by exchanging bound GDP for free GTP. Does not have a GEF activity for CDC42. Required for STMN1 'Ser-15' phosphorylation during axon formation and consequently for neuronal polarization.,similarity:Belongs to the DOCK family.,similarity:Contains 1 DHR-1 (CZH-1) domain.,similarity:Contains 1 DHR-2 (CZH-2) domain.,subcellular location:Enriched in the developing axons of hippocampal neurons.,subunit:Interacts with TSC1. Interacts with nucleotide-free RAC1 and RAC3.,tissue specificity:Widely expressed.,

**Background**

The protein encoded by this gene is a guanine nucleotide exchange factor (GEF) that plays a role in axon formation and neuronal polarization. The encoded protein displays GEF activity toward RAC1 and RAC3 Rho small GTPases but not toward CDC42. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images