



# DOCK7 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-05510
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	DOCK7 KIAA1771
<b>Protein Name</b>	Dedicator of cytokinesis protein 7
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	DOCK7 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	235kD
<b>Cell Pathway</b>	Cell projection, axon . Enriched in the developing axons of hippocampal neurons.
<b>Tissue Specificity</b>	Widely expressed.
<b>Function</b>	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.,
<b>Background</b>	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**