



ARHG6 Polyclonal Antibody

Catalog No	YP-Ab-06095
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	ARHGEF6 COOL2 KIAA0006 PIXA
Immunogen	Synthesized peptide derived from human protein . at AA range: 580-660
Specificity	ARHG6 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	ARHG6;ARHGEF6 COOL2 KIAA0006 PIXA;Rho guanine nucleotide exchange factor 6 (Alpha-Pix) (COOL-2) (PAK-interacting exchange factor alpha) (Rac/Cdc42 guanine nucleotide exchange factor 6)
Observed Band	85kD
Calculated Molecular Weight	85kD
Cell Pathway	Cell projection, lamellipodium .
Tissue Specificity	Ubiquitous.
Function	disease:Defects in ARHGEF6 are the cause of mental retardation X-linked type 46 (MRX46) [MIM:300436]. Mental retardation is a mental disorder characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. Non-syndromic mental retardation patients do not manifest other clinical signs.,function:Acts as a RAC1 guanine nucleotide exchange factor (GEF).,similarity:Contains 1 CH (calponin-homology) domain.,similarity:Contains 1 DH (DBL-homology) domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 SH3 domain.,subunit:Interacts with PAK kinases through the SH3 domain. Interacts with GIT1. Component of cytoplasmic complexes, which also contain PXN, GIT1 and PAK1.,tissue



specificity:Ubiquitous.,

Background

Rac/Cdc42 guanine nucleotide exchange factor 6 (ARHGEF6) Homo sapiens Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It may form a complex with G proteins and stimulate Rho-dependent signals. This protein is activated by PI3-kinase. Mutations in this gene can cause X-chromosomal non-specific mental retardation. [provided by RefSeq, Jul 2008],

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