



Girdin (phospho Ser1417) Polyclonal Antibody

Catalog No	YP-Ab-01418
Isotype	IgG
Reactivity	Human;Mouse
Applications	IHC;IF;ELISA
Gene Name	CCDC88A
Immunogen	The antiserum was produced against synthesized peptide derived from human Girdin around the phosphorylation site of Ser1417. AA range:1383-1432
Specificity	Phospho-Girdin (S1417) Polyclonal Antibody detects endogenous levels of Girdin protein only when phosphorylated at S1417.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA 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	IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AKT iphosphorylation enhancer;Akt phosphorylation enhancer;APE;Ccdc88a; Coiled coil domain containing 88A;Coiled coil domain containing protein 88A; Coiled-coil domain-containing protein 88A;FLJ10392;G alpha interacting vesicle associated protein;G alpha-interacting vesicle-associated protein;Galpha interacting vesicle associated protein;Girders of actin filament;Girdin;GIV;GRDN; GRDN_HUMAN;HKRP1;Hook related protein 1;Hook-related protein 1;KIAA1212
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cell membrane ; Peripheral membrane protein . Cytoplasm, cytosol . Cytoplasmic vesicle . Cell projection, lamellipodium . Cytoplasm, cytoskeleton, cilium basal body . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole . Localizes to the cytosol in unstimulated cells while EGF stimulation promotes membrane localization and guanine nucleotide exchange factor activity (PubMed:27864364). Localizes to the cell membrane through interaction with phosphoinositides (PubMed:16139227, PubMed:15882442). .
Tissue Specificity	Expressed ubiquitously.



Function

function:Enhances phosphoinositide 3-kinase (PI3K)-dependent phosphorylation and kinase activity of AKT1/PKB, but does not possess kinase activity itself. Phosphorylation of AKT1/PKB thereby induces the phosphorylation of downstream effectors GSK3 and FOXO1/FKHR, and regulates DNA replication and cell proliferation (By similarity). Essential for the integrity of the actin cytoskeleton and for cell migration. Required for formation of actin stress fibers and lamellipodia. May be involved in membrane sorting in the early endosome., PTM:Phosphorylation is induced by epidermal growth factor (EGF) in a phosphoinositide 3-kinase (PI3K)-dependent manner. Phosphorylation by AKT1/PKB is necessary for the delocalization from the cell membrane and for cell migration.,sequence caution:Intron retention at the C-terminus., similarity:Belongs to the CCDC88 family.,subcellular location:Localizes to the ce

Background

This gene encodes a member of the Girdin family of coiled-coil domain containing proteins. The encoded protein is an actin-binding protein that is activated by the serine/threonine kinase Akt and plays a role in cytoskeleton remodeling and cell migration. The encoded protein also enhances Akt signaling by mediating phosphoinositide 3-kinase (PI3K)-dependent activation of Akt by growth factor receptor tyrosine kinases and G protein-coupled receptors. Increased expression of this gene and phosphorylation of the encoded protein may play a role in cancer metastasis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011],

matters needing attention

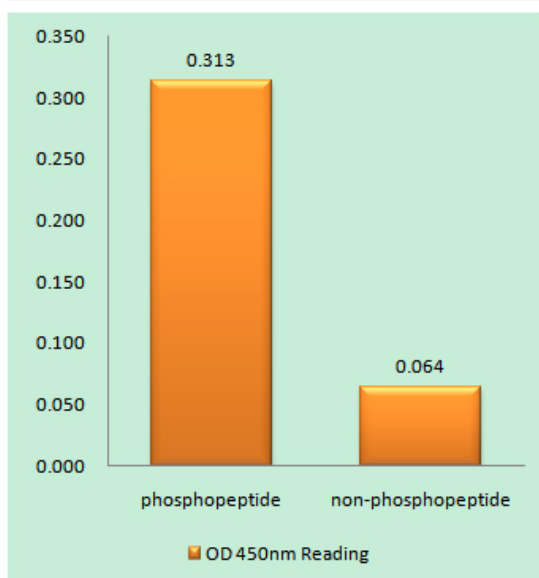
Avoid repeated freezing and thawing!

Usage suggestions

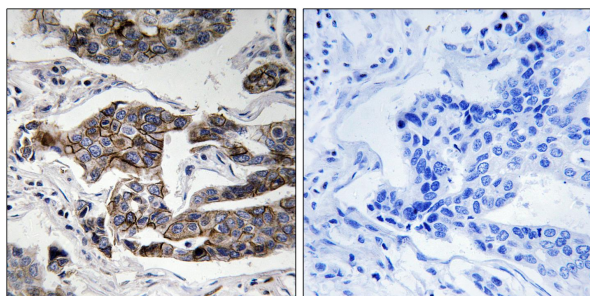
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Girdin (Phospho-Ser1417) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Girdin (Phospho-Ser1417) Antibody. The picture on the right is blocked with the phospho peptide.