Best Tools for immunology Research

Lfc (phospho Ser886) Polyclonal Antibody

Catalog No :	YP0398
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Lfc
Fields :	>>Tight junction;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Fluid shear stress and atherosclerosis
Gene Name :	ARHGEF2
Protein Name :	Rho guanine nucleotide exchange factor 2
Human Gene Id :	9181
Human Swiss Prot No :	Q92974
Mouse Gene Id :	16800
Mouse Swiss Prot No :	Q60875
Rat Gene Id :	310635
Rat Swiss Prot No :	Q5FVC2
Immunogen :	The antiserum was produced against synthesized peptide derived from human Rho/Rac Guanine Nucleotide Exchange Factor 2 around the phosphorylation site of Ser885. AA range:851-900
Specificity :	Phospho-Lfc (S885) Polyclonal Antibody detects endogenous levels of Lfc protein only when phosphorylated at S885.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG

Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	111kD
Cell Pathway :	Regulation of Actin Dynamics; AMPK
Background :	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 may form complex with G proteins and stimulate rho-dependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009],
Function :	domain:The DH (DBL-homology) domain interacts with and promotes loading of GTP on RhoA.,domain:The PH (pleckstrin-homology) domain is involved in microtubule binding and targeting to tight junctions.,function:Activates Rho-GTPases by promoting the exchange of GDP for GTP. May be involved in epithelial barrier permeability, cell motility and polarization, dendritic spine morphology, antigen presentation, leukemic cell differentiation, cell cycle regulation, and cancer. Binds Rac-GTPases, but does not seem to promote nucleotide exchange activity toward Rac-GTPases, which was uniquely reported in PubMed:9857026. May stimulate instead the cortical activity of Rac. Inactive toward CDC42, TC10, or Ras-GTPases.,online information:ARHGEF2 entry,PTM:Phosphorylation of Ser-886 by PAK1 induces binding to protein 14-3-3 zeta, promoting its relocation to microtubules and the inhibition of its activit
Subcellular Location :	Cytoplasm, cytoskeleton . Cytoplasm . Cell junction, tight junction . Golgi apparatus . Cytoplasm, cytoskeleton, spindle . Cell projection, ruffle membrane . Cytoplasmic vesicle . Localizes to the tips of cortical microtubules of the mitotic spindle during cell division, and is further released upon microtubule depolymerization (PubMed:15827085). Recruited into membrane ruffles induced by S.flexneri at tight junctions of polarized epithelial cells (PubMed:19043560). Colocalized with NOD2 and RIPK2 in vesicles and with the cytoskeleton (PubMed:21887730). .
Expression :	Brain,Cervix carcinoma,Epithelium,Platelet,
Tag :	orthogonal
Sort :	9173

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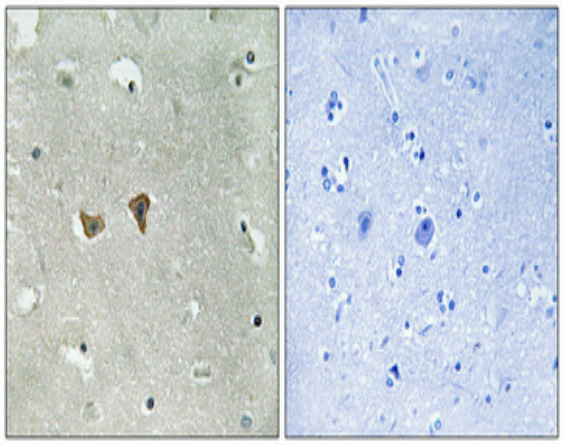
No4 : 1

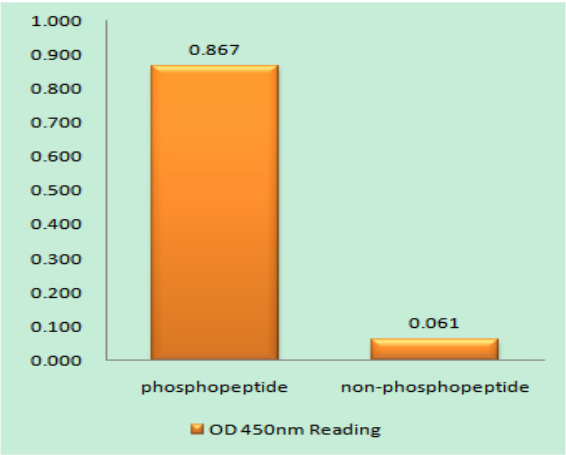
Host : Rabbit

Modifications : Phospho

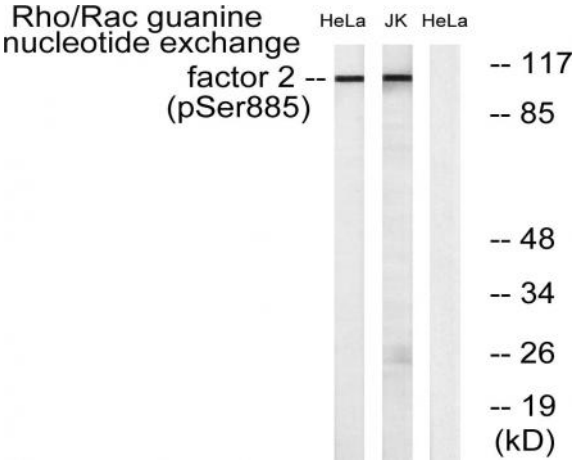
Products Images



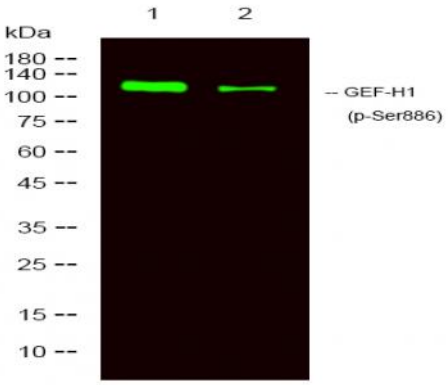
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Rho/Rac Guanine Nucleotide Exchange Factor 2 (Phospho-Ser885) Antibody



Western blot analysis of lysates from HeLa cells treated with TSA 400nM 24H and Jurkat cells treated with forskolin 40nM 30', using Rho/Rac Guanine Nucleotide Exchange Factor 2 (Phospho-Ser885) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of 1 A431 treated with LPS, 2 A431,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000