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Immunotag™ PAK4/5/6 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT3572
Product Description	Immunotag™ PAK4/5/6 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PAK4/5/6
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human PAK4/5/6. AA range:441-490
Specificity	PAK4/5/6 Polyclonal Antibody detects endogenous levels of PAK4/5/6 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PAK4
Accession No.	O96013 Q8BTW9
Alternate Names	PAK4; KIAA1142; Serine/threonine-protein kinase PAK 4; p21-activated kinase 4; PAK-4

Antibody Specification

Description	p21 (RAC1) activated kinase 4(PAK4) Homo sapiens PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008],
Cell Pathway/ Category	ErbB_HER,Axon guidance,Focal adhesion,T_Cell_Receptor,Regulates Actin and Cytoskeleton,Renal cell carcinoma,
Protein Expression	Brain,Epithelium,Eye,Lymphoma,Neuroblastoma,Pancreas,Placenta,Teratocarcino
Subcellular Localization	Golgi apparatus,cell-cell adherens junction,focal adhesion,
Protein Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Activates the JNK pathway. Plays a role in the reorganization of the actin cytoskeleton and in the formation of filopodia. Phosphorylates and inactivates the protein phosphatase SSH1, leading to increased inhibitory phosphorylation of the actin binding/depolymerizing factor cofilin. Decreased cofilin activity may lead to stabilization of actin filaments. Phosphorylates ARHGEF2.,PTM:Autophosphorylated on serine residues when activated by CDC42/p21.,PTM:Phosphorylated on tyrosine residues upon stimulation of FGFR2.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.,similarity:Contains 1 CRIB domain.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with FGFR2 and GRB2 (By similarity). Interacts tightly with GTP-bound but not GDP-bound CDC42/p21 and weakly with RAC1. Interacts with its substrate ARHGEF2.,tissue specificity:Highest expression in prostate, testis and colon.,
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