

Immunotag™ PAK4 Antibody

Antibody Specification	
Catalog No.	ITA7155
Product Description	Immunotag™ PAK4 Antibody
Size	100 µg, 200 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
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:500-1:1000 IHC 1:50-1:100
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Fusion protein of human PAK4
Specificity	PAK4 Antibody detects endogenous levels of total PAK4
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	PAK4
Accession No.	O96013
Alternate Names	KIAA1142; p21 activated kinase 4; p21 Cdc42/Rac1-actiated kinase 4; P21 protein (Cdc42/Rac) activated kinase 4; p21(CDKN1A) activated kinase 4; p21-activated kinase 4; PAK 4; PAK-4; Pak4; PAK4_HUMAN; Protein kinase related to S.cerevisiae STE20 effector for Cdc42Hs; Serine threonine kinase PAK 4; Serine/threonine protein kinase PAK 4; Serine/threonine protein kinase PAK4; Serine/threonine-protein kinase PAK 4;

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Description	<p>Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, growth, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. 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 LIMK1, a kinase that also inhibits the activity of cofilin. Phosphorylates integrin beta5/ITGB5 and thus regulates cell motility. Phosphorylates ARHGEF2 and activates the downstream target RHOA that plays a role in the regulation of assembly of focal adhesions and actin stress fibers. Stimulates cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Alternatively, inhibits apoptosis by preventing caspase-8 binding to death domain receptors in a kinase independent manner. Plays a role in cell-cycle progression by controlling levels of the cell-cycle regulatory protein CDKN1A and by phosphorylating RAN.</p>
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	64kD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.