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Immunotag™ Phospho-PAK1/2/3 (Ser144+Ser141+Ser139) Antibody

Antibody Specification

Catalog No.	ITA3842
Product Description	Immunotag™ Phospho-PAK1/2/3 (Ser144+Ser141+Ser139) 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	Phospho-PAK1/2/3 (Ser144+Ser141+Ser139)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:1000-3000 IHC 1:200 ICC/IF
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human Phospho-PAK1/2/3 (S144+S141+S139)
Specificity	Phospho-PAK1/2/3 (S144+S141+S139) Antibody detects endogenous levels of PAK1/2/3 only when phosphorylated at PS144+S141+S139
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
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	PAK3
Accession No.	O75914/Q13153/Q13177

Antibody Specification

Alternate Names	Alpha PAK; Beta PAK; bPAK; CDKN1A; Gamma PAK; hPAK3; MRX30; MRX47; Oligophrenin 3; OPHN3; P21 (CDKN1A) activated kinase 2; P21 (CDKN1A) activated kinase 3; p21 activated kinase 1; p21 activated kinase 2; p21 activated kinase 3; P21 protein (Cdc42/Rac) activated kinase 1; P21 protein (Cdc42/Rac) activated kinase 2; P21 protein (Cdc42/Rac) activated kinase 3; P21/Cdc42/Rac1 activated kinase 1 (STE20 homolog, yeast); P21/Cdc42/Rac1 activated kinase 1 (yeast Ste20 related); P58; P65 PAK; PAK 2; PAK 3; PAK1; PAK2; PAK3; PAK3beta; PAK65; PAKalpha; PAKgamma; S6/H4 kinase; Serine/threonine protein kinase PAK 1; Serine/threonine protein kinase PAK 2; Serine/threonine protein kinase PAK 3; Serine/threonine protein kinase PAK1; Serine/threonine protein kinase PAK2; Serine/threonine protein kinase PAK3; STE20 homolog, yeast; ADRB2; Alpha PAK; Alpha-PAK; MGC130000; MGC130001; p21 activated kinase 1; p21 protein (Cdc42/Rac) activated kinase 1; p21-activated kinase 1; p21/Cdc42/Rac1 activated kinase 1 (yeast Ste20 related); p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast); p65 PAK; p65-PAK; P68-PAK; PAK alpha; PAK-1; Pak1; PAK1_HUMAN; Paka; PAKalpha; Protein kinase MUK2; Rac/p21-activated kinase; Serine/threonine-protein kinase PAK 1; STE20 homolog yeast; C-t-PAK2; CB422; EC 2.7.11.1; Gamma PAK; Gamma-PAK; hPAK65; Kinase; p21 (CDKN1A) activated kinase 2; p21 (CDKN1A)-activated kinase 2a; p21 activated kinase 2; p21 protein (Cdc42/Rac)-activated kinase 2; p21 protein Cdc42 Rac activated kinase 2; p21-activated kinase 2; p21-activated kinase, 65-KD; p21-activated protein kinase I; p21CDKN1A activated kinase 2; p27; p34; p58; p65PAK; PAK 2; PAK-2; PAK-2p34; Pak2; PAK2_HUMAN; PAK65; PAKgamma; S6 H4 kinase; S6/H4 kinase; Serine threonine protein kinase PAK 2; Serine/threonine protein kinase PAK 2;
Description	Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, or cell cycle regulation. Plays a role in dendrite spine morphogenesis as well as synapse formation and plasticity. Acts as downstream effector of the small GTPases CDC42 and RAC1. Activation by the binding of active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Additionally, phosphorylates TNNI3/troponin I to modulate calcium sensitivity and relaxation kinetics of thin myofilaments. May also be involved in early neuronal development.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	65kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.