

Immunotag™ PRK1/2 Antibody

Antibody Specification	
Catalog No.	ITA2644
Product Description	Immunotag™ PRK1/2 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	PRK1/2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human PRK1/2
Specificity	PRK1/2 Antibody detects endogenous levels of PRK1/2
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	PKN1
Accession No.	Q16512/Q16513

Antibody Specification

Alternate Names	DBK; PAK 1; PAK-1; PAK1; PKC1; PKN ALPHA; PKN; Pkn1; PKN1_HUMAN; PRK1; PRKCL1; Protease activated kinase 1; Protease-activated kinase 1; Protein kinase C like 1; Protein kinase C like PKN; Protein kinase C related kinase 1; Protein kinase C-like 1; Protein kinase C-like PKN; Protein kinase N1; Protein kinase PKN alpha; Protein kinase PKN-alpha; Protein-kinase C-related kinase 1; Serine threonine kinase N; Serine threonine protein kinase N; Serine-threonine protein kinase N; Serine/threonine protein kinase N1; Serine/threonine-protein kinase N1; Cardiolipin activated protein kinase Pak2; MGC150606; MGC71074; PAK 2; PAK2; PKN gamma; PKN2; PKN2_HUMAN; PRK2; PRKCL2; PRO2042; Protein kinase C like 2; Protein kinase C related kinase 2; Protein kinase C-like 2; Protein kinase N2; Protein-kinase C-related kinase 2; Serine/threonine-protein kinase N2;
Description	PKC-related serine/threonine-protein kinase involved in various processes such as regulation of the intermediate filaments of the actin cytoskeleton, cell migration, tumor cell invasion and transcription regulation. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14. Regulates the cytoskeletal network by phosphorylating proteins such as VIM and neurofilament proteins NEFH, NEFL and NEFM, leading to inhibit their polymerization. Phosphorylates 'Ser-575', 'Ser-637' and 'Ser-669' of MAPT/Tau, lowering its ability to bind to microtubules, resulting in disruption of tubulin assembly. Acts as a key coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and specifically mediating phosphorylation of 'Thr-11' of histone H3 (H3T11ph), a specific tag for epigenetic transcriptional activation that promotes demethylation of histone H3 'Lys-9' (H3K9me) by KDM4C/JMJD2C. Phosphorylates HDAC5, HDAC7 and HDAC9, leading to impair their import in the nucleus. Phosphorylates 'Thr-38' of PPP1R14A, 'Ser-159', 'Ser-163' and 'Ser-170' of MARCKS, and GFAP. Able to phosphorylate RPS6 in vitro.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	104KD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.