

Mouse PRK2 Monoclonal Antibody | anti-PRK2 antibody

PRK2 Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320204	Mouse	Human, Mouse, Rat, Monkey	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PRK2; Monoclonal Antibody; PRK2 Monoclonal Antibody; Serine/threonine-protein kinase N2; PKN2; PRKCL2; PKN gamma; Protein kinase C-like 2; Protein-kinase C-related kinase 2; anti-PRK2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Monoclonal
Specificity	PRK2 Monoclonal Antibody detects endogenous levels of PRK2 protein.
Purity/Purification	Affinity purification
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Applicable Applications for anti-PRK2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Purified recombinant fragment of human PRK2 expressed in E coli.
Modification	Unmodified/Total
Catalytic Activity	ATP + a protein = ADP + a phosphoprotein.
Domain	The C1 domain does not bind the diacylglycerol (DAG)
Enzyme Regulation	Activated by lipids, particularly cardiolipin and to a lesser extent by other acidic phospholipids and unsaturated fatty acids. Two specific sites, Thr-816 (activation loop of the kinase domain) and Thr-958 (turn motif), need to be phosphorylated for its full activation.
Function	Exhibits a preference for highly basic protein substrates.
PTM	Activated by limited proteolysis with trypsin. Autophosphorylated. Belongs to the protein kinase superfamily. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 1 protein kinase domain. Contains 3 REM (Hr1) repeats.
Preparation and Storage	Store at -20 degree C/1 year

IMAGES



Application Data



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of NIH/3T3 cells using PRK2 Monoclonal Antibody (blue) and negative control (red).



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded prostate tissues with DAB staining using PRK2 Monoclonal Antibody.



WB (Western Blot)
Western Blot analysis using PRK2 Monoclonal Antibody against PC-12 (1). Cos7 (2). K562 (3). Jurkat (4). HeLa (5). A431 (6). C6 (7). NIH/3T3 (8) and HEK293 (9) cell lysate.

ADDITIONAL INFORMATION

Product Categories/Family for anti-PRK2 antibody	Primary Antibodies
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6225859
NCBI GeneID	5586
UniProt Accession #	Q16513; Q08AF4; Q9H1W4; B4DQ21; B4DTP5; B4DVG1; D3DT24
Molecular Weight	984
NCBI Official Full Name	Serine/threonine-protein kinase N2
NCBI Official Synonym Full Names	protein kinase N2
NCBI Official Symbol	PKN2
NCBI Official Synonym Symbols	PAK2; PRK2; STK7; Pak-2; PRKCL2; PRO2042
NCBI Protein Information	serine/threonine-protein kinase N2; PKN gamma; protein kinase C-like 2; protein-kinase C-related kinase 2; cardiolipin-activated protein kinase Pak2
UniProt Protein Name	Serine/threonine-protein kinase N2
UniProt Gene Name	PKN2
UniProt Synonym Gene Names	PRK2; PRKCL2
UniProt Entry Name	PKN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.