.-online.com antibodies

Datasheet for ABIN6264428 anti-PKD2 antibody (N-Term)

2 Images



Overview

Quantity:	100 µL
Target:	PKD2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKD2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PRKD2, corresponding to a region within N-terminal amino acids.
Isotype:	lgG
Specificity:	PRKD2 Antibody detects endogenous levels of total PRKD2.
Predicted Reactivity:	Pig,Bovine,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

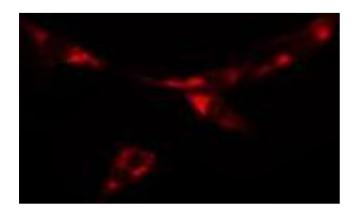
Target:	PKD2	
Order at www.antibodies-online.com www.antikoerper-online.de www.anticorps-enligne.fr www.antibodies-online.cn International: +49 (0)241 95 163 153 USA & Canada: +1 877 302 8632 support@antibodies-online.com		

Page 1/4 | Product datasheet for ABIN6264428 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

Alternative Name:	PRKD2 (PKD2 Products)
Background:	Description: Serine/threonine-protein kinase that converts transient diacylglycerol (DAG) signals
	into prolonged physiological effects downstream of PKC, and is involved in the regulation of ce
	proliferation via MAPK1/3 (ERK1/2) signaling, oxidative stress-induced NF-kappa-B activation,
	inhibition of HDAC7 transcriptional repression, signaling downstream of T-cell antigen receptor
	(TCR) and cytokine production, and plays a role in Golgi membrane trafficking, angiogenesis,
	secretory granule release and cell adhesion (PubMed:15604256, PubMed:14743217,
	PubMed:17077180, PubMed:16928771, PubMed:17962809, PubMed:17951978,
	PubMed:18262756, PubMed:19192391, PubMed:19001381, PubMed:23503467,
	PubMed:28428613). May potentiate mitogenesis induced by the neuropeptide bombesin by
	mediating an increase in the duration of MAPK1/3 (ERK1/2) signaling, which leads to
	accumulation of immediate-early gene products including FOS that stimulate cell cycle
	progression (By similarity). In response to oxidative stress, is phosphorylated at Tyr-438 and
	Tyr-717 by ABL1, which leads to the activation of PRKD2 without increasing its catalytic activity
	and mediates activation of NF-kappa-B (PubMed:15604256, PubMed:28428613). In response to
	the activation of the gastrin receptor CCKBR, is phosphorylated at Ser-244 by CSNK1D and
	CSNK1E, translocates to the nucleus, phosphorylates HDAC7, leading to nuclear export of
	HDAC7 and inhibition of HDAC7 transcriptional repression of NR4A1/NUR77
	(PubMed:17962809). Upon TCR stimulation, is activated independently of ZAP70, translocates
	from the cytoplasm to the nucleus and is required for interleukin-2 (IL2) promoter up-regulation
	(PubMed:17077180). During adaptive immune responses, is required in peripheral T-
	lymphocytes for the production of the effector cytokines IL2 and IFNG after TCR engagement
	and for optimal induction of antibody responses to antigens (By similarity). In epithelial cells
	stimulated with lysophosphatidic acid (LPA), is activated through a PKC-dependent pathway
	and mediates LPA-stimulated interleukin-8 (IL8) secretion via a NF-kappa-B-dependent pathwa
	(PubMed:16928771). During TCR-induced T-cell activation, interacts with and is activated by
	the tyrosine kinase LCK, which results in the activation of the NFAT transcription factors
	(PubMed:19192391). In the trans-Golgi network (TGN), regulates the fission of transport
	vesicles that are on their way to the plasma membrane and in polarized cells is involved in the
	transport of proteins from the TGN to the basolateral membrane (PubMed:14743217). Plays ar
	important role in endothelial cell proliferation and migration prior to angiogenesis, partly
	through modulation of the expression of KDR/VEGFR2 and FGFR1, two key growth factor
	receptors involved in angiogenesis (PubMed:19001381). In secretory pathway, is required for
	the release of chromogranin-A (CHGA)-containing secretory granules from the TGN
	(PubMed:18262756). Downstream of PRKCA, plays important roles in angiotensin-2-induced

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6264428 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

	monocyte adhesion to endothelial cells (PubMed:17951978). Plays a regulatory role in angiogenesis and tumor growth by phosphorylating a downstream mediator CIB1 isoform 2, resulting in vascular endothelial growth factor A (VEGFA) secretion (PubMed:23503467).
	Gene: PRKD2
Molecular Weight:	105 kDa
Gene ID:	25865
UniProt:	Q9BZL6
Pathways:	cAMP Metabolic Process, Maintenance of Protein Location, Negative Regulation of Transporter Activity
Application Details	
Application Notes:	WB 1:1000-3000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

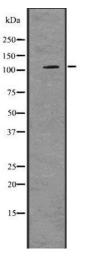


Immunofluorescence (fixed cells)

Image 1. ABIN6277886 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25jãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37jãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod

Western Blotting

Image 2. Western blot analysis of PRKD2 using LOVO whole lysates.



Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN6264428 | 09/10/2023 | Copyright antibodies-online. All rights reserved.