

Datasheet for ABIN391014
anti-PRKD3 antibody (AA 352-384)[Go to Product page](#)

3 Images

1 Publication

Overview

Quantity:	400 µL
Target:	PRKD3
Binding Specificity:	AA 352-384
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKD3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PKC-nu antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 352-384 amino acids from human PKC-nu.
Clone:	RB1047
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PRKD3
Alternative Name:	PKC nu (PRKD3 Products)

Target Details

Background: Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play distinct roles in cells. PKC nu is one of the PKC family members. This kinase can be activated rapidly by the agonists of G protein-coupled receptors. It resides in both cytoplasm and nucleus, and its nuclear accumulation is found to be dramatically enhanced in response to its activation. This kinase can also be activated after B-cell antigen receptor (BCR) engagement, which requires intact phospholipase C gamma and the involvement of other PKC family members.

Molecular Weight: 100471

Gene ID: 23683

NCBI Accession: [NP_005804](#)

UniProt: [O94806](#)

Application Details

Application Notes: WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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: 4 °C,-20 °C

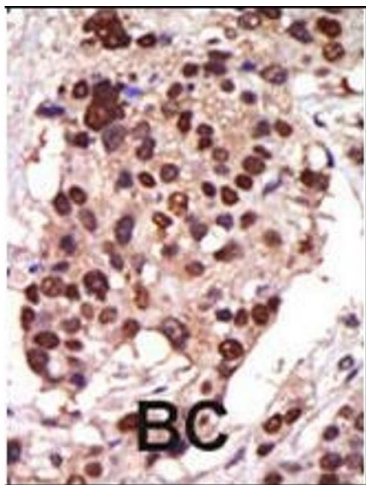
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

Publications

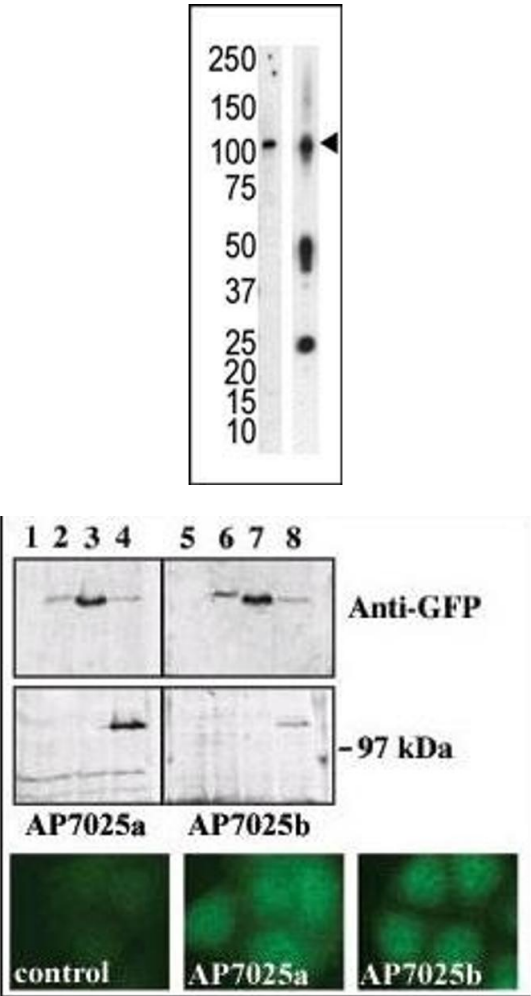
- Product cited in: Murakami, Ito, Hagiwara, Yoshida, Sobue, Ichihara, Takagi, Kojima, Tanaka, Tamiya-Koizumi, Kyogashima, Suzuki, Banno, Nozawa, Murate: "ATRA inhibits ceramide kinase transcription in a human neuroblastoma cell line, SH-SY5Y cells: the role of COUP-TFI." in: **Journal of neurochemistry**, Vol. 112, Issue 2, pp. 511-20, (2010) ([PubMed](#)).
- Yang, Gagarin, St Laurent, Hammell, Toma, Hu, Iwasa, McCaffrey: "Cardiovascular inflammation and lesion cell apoptosis: a novel connection via the interferon-inducible immunoproteasome." in: **Arteriosclerosis, thrombosis, and vascular biology**, Vol. 29, Issue 8, pp. 1213-9, (2009) ([PubMed](#)).
- Hinkovska-Galcheva, Clark, VanWay, Huang, Hiraoka, Abe, Borofsky, Kunkel, Shanley, Shayman, Lanni, Petty, Boxer: "Ceramide kinase promotes Ca²⁺ signaling near IgG-opsonized targets and enhances phagolysosomal fusion in COS-1 cells." in: **Journal of lipid research**, Vol. 49, Issue 3, pp. 531-42, (2008) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of anti-PKC α Pab (ABIN391014 and ABIN2841186) in lysate of HL60 cells stimulated with A (lane A) and mouse brain tissue lysate (lane B). PKC α (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

Western Blotting

Image 3. Upper panel, western blot analysis of GFP fusion protein expression in Panc-1 cells by using an anti-GFP antibody. Lanes 1 and 5: non-transfected cells, lanes 2 and 6: GFP-PKD-transfected cells, lanes 3 and 7: GFP-PKD2-transfected cells, lanes 4 and 8: GFP-PKD3 transfected cells. Center panel, western blot analysis of GFP fusion protein expression in Panc-1 cells by using PKD3 N-term ((ABIN391014 and ABIN2841186)) and C-term ((ABIN391015 and ABIN2841187)) antibodies. Lower panel, indirect immunofluorescence analysis of GFP-PKD3 fusion protein expression in Panc-1 cells by using (ABIN391014 and ABIN2841186) and (ABIN391015 and ABIN2841187) antibodies. Data courtesy of Dr. Osvaldo Rey, University of California Los Angeles.