

PKN beta Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7935a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6P5Z2
Other Accession	NP_037487
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB1043
Calculated MW	99421
Antigen Region	463-492

Additional Information

Gene ID	29941
Other Names	Serine/threonine-protein kinase N3, Protein kinase PKN-beta, Protein-kinase C-related kinase 3, PKN3, PKNBETA
Target/Specificity	This PKN beta antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 463-492 amino acids from the C-terminal region of human PKN beta.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PKN beta Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PKN3
Synonyms	PKNBETA
Function	Contributes to invasiveness in malignant prostate cancer.

Cellular Location	Nucleus. Cytoplasm, perinuclear region. Note=Nuclear and perinuclear Golgi region
Tissue Location	Expressed in prostate tumors and various cancer cell lines. Not expressed in adult tissues

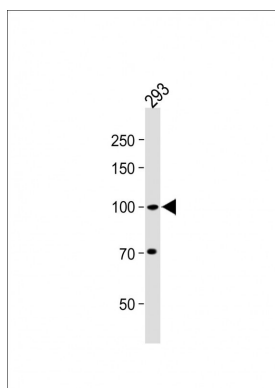
Background

PKN3, a protein kinase C-related molecule, mediates malignant cell growth downstream of activated PI3K. PKN3 is required for invasive prostate cell growth as assessed by 3D cell culture assays and in an orthotopic mouse tumor model by inducible expression of short hairpin RNA (shRNA). PKN3 is regulated by PI3K at both the expression level and the catalytic activity level. Therefore, PKN3 might represent a preferred target for therapeutic intervention in cancers that lack tumor suppressor PTEN function or depend on chronic activation of PI3K.

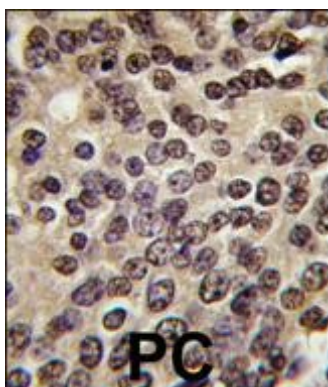
References

Oishi, K., et al., Biochem. Biophys. Res. Commun. 261(3):808-814 (1999).

Images



All lanes : Anti-PKN beta Antibody (C-term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 100kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with PKN beta antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.