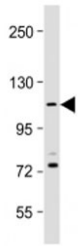
PKN1 Antibody (F53997)

Catalog No.	Formulation	Size
F53997-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53997-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Bovine
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q16512
Applications	Western blot: 1:2000
Limitations	This PKN1 antibody is available for research use only.



Western blot testing of PKN1 antibody at 1:2000 dilution + human Jurkat whole cell lysate. Predicted molecular weight ~104 kDa.

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. 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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the PKN1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 836-870 from the human protein were used as the immunogen for this PKN1 antibody.

Storage

Aliquot the PKN1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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