

ARG59467 anti-WNK1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes WNK1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	WNK1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 1154-1195 of Human WNK1. (DNPEEIATIMVNNDFILAIERESFVDQVREIEKADDEMLSED)
Conjugation	Un-conjugated
Alternate Names	PSK; p65; PRKWINK1; Serine/threonine-protein kinase WNK1; Protein kinase lysine-deficient 1; PPP1R167; Erythrocyte 65 kDa protein; hWNK1; Kinase deficient protein; EC 2.7.11.1; HSN2; KDP; HSN2; Protein kinase with no lysine 1

Application Instructions

Application table	Application	Dilution
	IHC-P	0.5 - 1 µg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

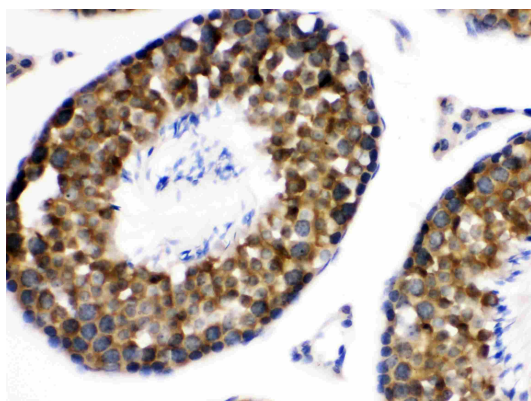
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

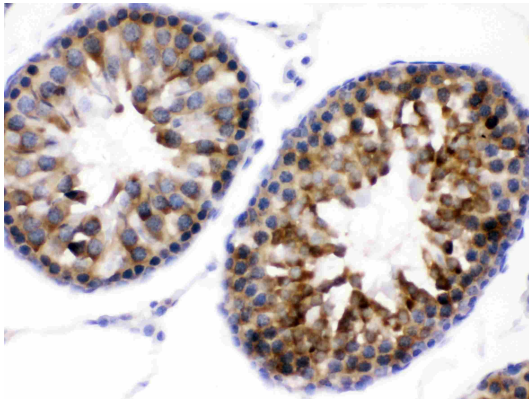
Gene Symbol	WNK1
Gene Full Name	WNK lysine deficient protein kinase 1
Background	This gene encodes a member of the WNK subfamily of serine/threonine protein kinases. The encoded protein may be a key regulator of blood pressure by controlling the transport of sodium and chloride ions. Mutations in this gene have been associated with pseudohypoaldosteronism type II and hereditary sensory neuropathy type II. Alternatively spliced transcript variants encoding different isoforms have been described but the full-length nature of all of them has yet to be determined.[provided by RefSeq, May 2010]
Function	Serine/threonine kinase which plays an important role in the regulation of electrolyte homeostasis, cell signaling, survival, and proliferation. Acts as an activator and inhibitor of sodium-coupled chloride cotransporters and potassium-coupled chloride cotransporters respectively. Activates SCNN1A, SCNN1B, SCNN1D and SGK1. Controls sodium and chloride ion transport by inhibiting the activity of WNK4, by either phosphorylating the kinase or via an interaction between WNK4 and the autoinhibitory domain of WNK1. WNK4 regulates the activity of the thiazide-sensitive Na-Cl cotransporter, SLC12A3, by phosphorylation. WNK1 may also play a role in actin cytoskeletal reorganization. Phosphorylates NEDD4L. Acts as a scaffold to inhibit SLC4A4, SLC26A6 as well as CFTR activities and surface expression, recruits STK39 which mediates the inhibition (By similarity). [UniProt]
Calculated Mw	251 kDa
PTM	O-glycosylated. Ubiquitinated in vitro by the BCR(KLHL3) complex and in vivo by a BCR(KLHL2) complex, leading to proteasomal degradation. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



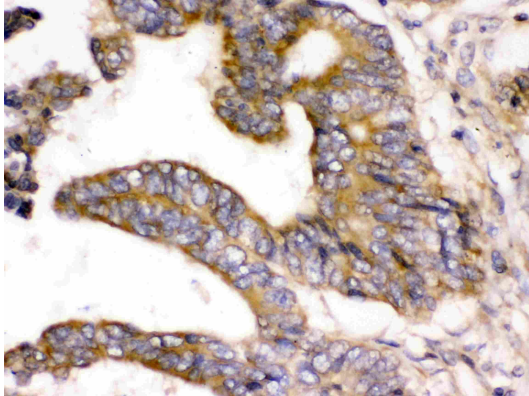
ARG59467 anti-WNK1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse testis stained with ARG59467 anti-WNK1 antibody at 1 µg/ml dilution.



ARG59467 anti-WNK1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis stained with ARG59467 anti-WNK1 antibody at 1 µg/ml dilution.



ARG59467 anti-WNK1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer stained with ARG59467 anti-WNK1 antibody at 1 µg/ml dilution.
