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Datasheet for ABIN7169234  
**anti-WNK4 antibody (AA 828-1106)**

3 Images

Overview

Quantity:	100 µg
Target:	WNK4
Binding Specificity:	AA 828-1106
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This WNK4 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase WNK4 protein (828-1106AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	WNK4
Alternative Name:	WNK4 ( <a href="#">WNK4 Products</a> )
Background:	Background: Serine/threonine kinase which plays an important role in the regulation of electrolyte homeostasis, cell signaling, survival and proliferation. Acts as an activator and

## Target Details

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inhibitor of sodium-coupled chloride cotransporters and potassium-coupled chloride cotransporters respectively. Activates SCNN1A, SCNN1B, SCNN1D, SGK1, TRPV5 and TRPV6. Regulates the activity of the thiazide-sensitive Na-Cl cotransporter, SLC12A3, by phosphorylation which appears to prevent membrane trafficking of SLC12A3. Also inhibits the renal K(+) channel, KCNJ1, via a kinase-independent mechanism by which it induces clearance of the protein from the cell surface by clathrin-dependent endocytosis. WNK4 appears to act as a molecular switch that can vary the balance between NaCl reabsorption and K(+) secretion to maintain integrated homeostasis. Phosphorylates NEDD4L. Acts as a scaffold to inhibit SLC4A4 as well as CFTR activities and surface expression, recruits STK39 which mediates the inhibition (By similarity).

Aliases: PHA 2B antibody, PHA2B antibody, PRKWINK 4 antibody, PRKWINK4 antibody, Protein kinase lysine deficient 4 antibody, Protein kinase lysine-deficient 4 antibody, Protein kinase with no lysine 4 antibody, Serine/threonine protein kinase WNK4 antibody, Serine/threonine-protein kinase WNK4 antibody, WNK lysine deficient protein kinase 4 antibody, Wnk4 antibody, WNK4\_HUMAN antibody

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UniProt: [Q96J92](#)

## Application Details

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Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

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Format: Liquid

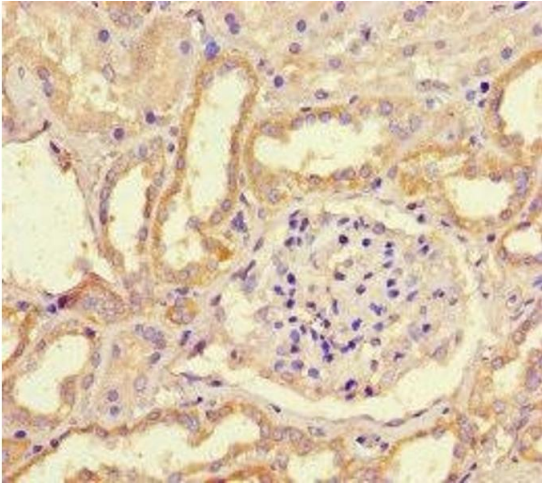
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

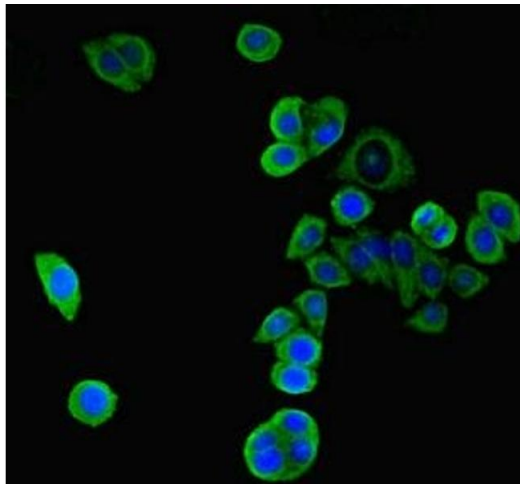
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



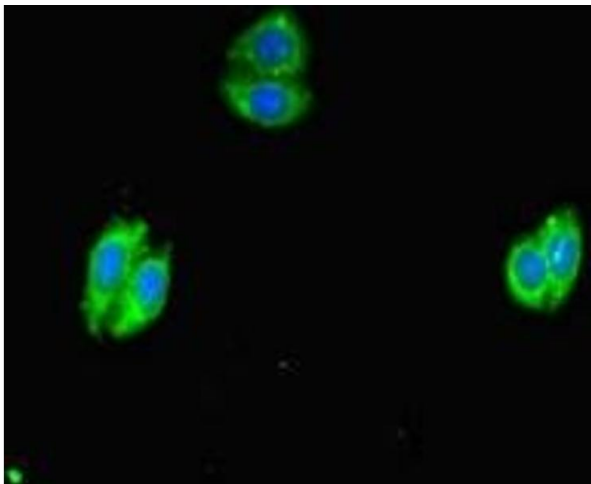
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7169234 at dilution of 1:100



### Immunofluorescence

**Image 2.** Immunofluorescent analysis of PC-3 cells using ABIN7169234 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



### Immunofluorescence

**Image 3.** Immunofluorescent analysis of HepG2 cells using ABIN7169234 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)