

Rabbit WNK4 Polyclonal Antibody | anti-WNK4 antibody

Phospho-WNK4 (Ser575) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329234	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

WNK4; Polyclonal Antibody; Phospho-WNK4 (Ser575) Antibody; PHA 2B; PHA2B; PRKWINK 4; PRKWINK4; Protein kinase lysine deficient 4; Protein kinase lysine-deficient 4; Protein kinase with no lysine 4; Serine/threonine protein kinase WNK4; Serine/threonine-protein kinase WNK4; WNK lysine deficient protein kinase 4; Wnk4; WNK4_HUMAN; anti-WNK4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-WNK4 (Ser575) Antibody detects endogenous levels of WNK4 only when phosphorylated at Ser575. Tissue Specificity: Expressed in kidney, colon and skin.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-WNK4 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human WNK4 around the phosphorylation site of Ser575.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by WNK1 and WNK3. Ubiquitinated by the BCR (KLHL3) complex, leading to its degradation and increased expression of KCNJ1 at the cell surface. Ubiquitinated by the BCR (KLHL2) complex.
Subunit Structure	Interacts with the C-terminal region of KCNJ1 (By similarity). Interacts with WNK1 and WNK3 (By similarity). Interacts with KLHL3.
Similarity	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WNK subfamily.
Subcellular Location	Cell junction>Tight junction. Note: Present exclusively in intercellular junctions in the distal convoluted tubule and in both the cytoplasm and intercellular junctions in the cortical collecting duct. WNK4 is part of the tight junction complex.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

At 1/100 staining Mouse stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)

Staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from various samples, using Phospho-WNK4 (Ser575) Antibody.Lane 1: P19 cells(serum starvation treatment), blocked with antigen-specific peptides,Lane 2: P19 cells(serum starvation treatment),Lane 3: HepG2 cells(heat shock treatment).

ADDITIONAL INFORMATION

Related Product Information for anti-WNK4 antibody

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, 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).

NCBI AND UNIPROT INFORMATION

NCBI GeneID	65266
UniProt Accession #	Q96J92
Molecular Weight	Predicted Mol.Wt.: 135kDa (Calculated)
UniProt Protein Name	Serine/threonine-protein kinase WNK4
UniProt Gene Name	WNK4
UniProt Synonym Gene Names	PRKWINK4
UniProt Entry Name	WNK4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/wnk4-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329234>