
WNK4 (mouse) Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 250912

Unit: 0.1 mg

Description:

Ser/Thr-protein kinase WNK4 regulates the activity of the thiazide-sensitive Na-Cl cotransporter SLC12A3 by phosphorylation, which prevents membrane trafficking of SLC12A3. WNK4 also inhibits the renal potassium channel KCNJ1 via a kinase-independent mechanism by which it induces clearance of the protein from the cell surface by clathrin-dependent endocytosis. WNK4 acts as a molecular switch that can vary the balance between NaCl reabsorption and K⁺ secretion to maintain integrated homeostasis. WNK4 is exclusively present in intercellular junctions in the distal convoluted tubule and in both the cytoplasm and intercellular junctions in the cortical collecting duct. Defects in WNK4 are a cause of pseudohypoaldosteronism type II (PHAII).

Isotype: Rabbit Ig

Applications: E, IHC, WB

Species Reactivity: M, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: WNK4; Ser/Thr-protein kinase WNK4; Serine/threonine-protein kinase WNK4; protein kinase with no lysine 4; protein kinase, lysine?deficient 4

Accession No.: Q96J92

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of mouse WNK4.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

Product Citations: Singh AK 2013. J Physiol.

591(Pt.21):5377-5391. PMID# 24018950.

For research use only, not for diagnostic or therapeutic procedures.