bsm-54375R **[Primary Antibody]**

WNK1 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 4G10
GeneID: 65125
SWISS: Q9H4A3
Target: WNK1
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: WNK1 controls sodium and chloride ion transport by inhibiting the activity of WNK4, potentially 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. WNK1 has 4 isoforms produced by alternative splicing. WNK1 is widely expressed, with highest levels observed in the testis, heart, kidney and skeletal muscle. Defects in WNK1 are a cause of pseudohypoaldosteronism type II (PHAII), an autosomal dominant disease characterized by severe hypertension, hyperkalemia, and sensitivity to thiazide diuretics which may result from a chloride shunt in the renal distal nephron.

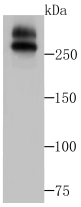
Applications: **WB** (1:500-1000)
IHC-P (1:100-500)
IHC-F (1:400-800)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

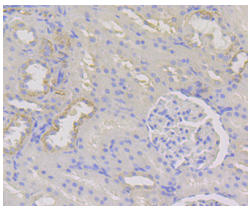
Predicted MW.: 251 kDa

Subcellular Location: Cytoplasm

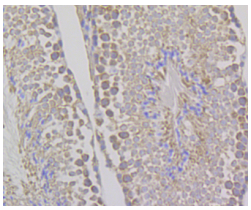
VALIDATION IMAGES



Western blot analysis of WNK1 on A549 cell lysates using anti-WNK1 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-WNK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-WNK1 antibody. Counter stained with hematoxylin.