

For Research Use Only

WNK4 Recombinant antibody

Catalog Number: 85886-4-RR



Basic Information

Catalog Number:

85886-4-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17773

GenBank Accession Number:

BC136664

GeneID (NCBI):

65266

UNIPROT ID:

Q96J92

Full Name:

WNK lysine deficient protein kinase 4

Calculated MW:

1243 aa, 135 kDa

Observed MW:

220 kDa

Purification Method:

Protein A purification

CloneNo.:

250156A10

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HepG2 cells, A375 cells

Background Information

WNK4 (With No Lysine Kinase 4) is a member of the WNK family of serine/threonine protein kinases. It plays a crucial role in regulating electrolyte balance and blood pressure by modulating the activity of ion transporters in the kidney. WNK4 is primarily involved in the regulation of sodium and potassium homeostasis. It achieves this by phosphorylating and activating the kinases SPAK and OSR1, which in turn regulate the activity of the sodium-chloride cotransporter (NCC) in the distal convoluted tubule of the kidney. Additionally, by promoting sodium reabsorption and potassium secretion, WNK4 contributes to the regulation of blood pressure. Increased activity of WNK4 can lead to hypertension. (PMID: 24655003; 33491560)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

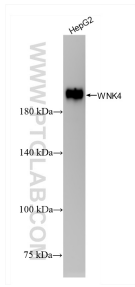
T: 4006900926

E: Proteintech-CN@ptglab.com

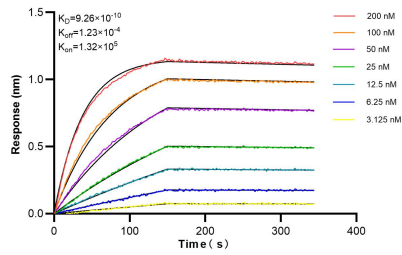
W: ptgcn.com

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Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 85886-4-RR (WNK4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85886-4-RR against Human WNK4 were performed. The affinity constant is 0.926 nM.