

For Research Use Only

WNK4 Recombinant antibody, PBS Only

Catalog Number: 85886-4-PBS



Basic Information

Catalog Number: 85886-4-PBS	GenBank Accession Number: BC136664	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 65266	CloneNo.: 250156A10
Source: Rabbit	UNIPROT ID: Q96J92	
Isotype: IgG	Full Name: WNK lysine deficient protein kinase 4	
Immunogen Catalog Number: AG17773	Calculated MW: 1243 aa, 135 kDa	
	Observed MW: 220 kDa	

Applications

Tested Applications:
WB, Indirect ELISA
Species Specificity:
human

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)

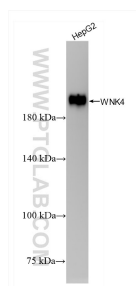
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

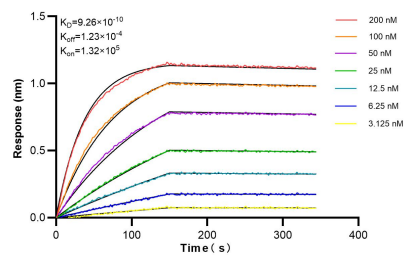
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Selected Validation Data



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. This data was developed using the same antibody clone with 85886-4-PBS in a different storage buffer formulation.



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