



## Anti-WNK1 Antibody (Clone M42-P3B10)

**Alternative Names:** WNK1, Erythrocyte 65 kDa protein, Human Accelerated Region 5, WNK Lysine Deficient Protein Kinase 1, hWNK1

**Catalogue Number:** AX17-10003-100ug

**Size:** 100 µg

### Background Information

WNK1 is a cytoplasmic serine-threonine kinase involved in the regulation of electrolyte homeostasis, cell signalling, survival, and proliferation. It is part of the ERK5 MAP kinase pathway and acts as an activator of sodium-coupled chloride cotransporters such as SCNN1A, SCNN1B, SCNN1D and SGK1 and as an inhibitor of WNK4 by phosphorylation or through an interaction with the WNK1 autoinhibitory domain. WNK1 may also play a role in actin cytoskeletal reorganisation. Defects in WNK1 are a cause of Gordon hyperkalemia-hypertension syndrome (pseudohypoaldosteronism type II - PHAII) an autosomal dominant disease characterised by severe hypertension and sensory and autonomic neuropathy type 2A (HSAN2A), a form of congenital sensory and autonomic neuropathy. Homologs of this WNK1 have been found in Arabidopsis thaliana, C. elegans, Chlamydomonas reinhardtii and Vitis vinifera as well as in vertebrates including Danio rerio and Taeniopygia guttata. This antibody was validated with HEK 293T cell lysate and HeLa cell lysate (1 in 1000 in 5% BSA)

### Product Information

<b>Antibody Type:</b>	Monoclonal	<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1 kappa	<b>Species Reactivity:</b>	Human
<b>Immunogen:</b>	A synthetic peptide from the C-terminal region of Human WNK1 - Ovalbumin Conjugated (The selected sequence is highly conserved across many species).		
<b>Format:</b>	100 µg in 100 µl PBS containing 0.02% sodium azide.		
<b>Storage Conditions:</b>	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
<b>Applications:</b>	ELISA   IHC   WB WB 1:1000 in 5% BSA, IHC 1:50-1:500		

### Additional Information

<b>Subcellular location:</b>	Cytoplasm	<b>MW:</b>	250kDa (Intended as a general guide and does not allow for all isoforms and species variations)
<b>Gene ID</b>	65125	<b>Uniprot ID:</b>	Q9H4A3