Human Phospho-WNK1 (T60) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1259F
Catalog Number: MAB4720

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human WNK1 when phosphorylated at T60 in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1259F
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing human WNK1 T60 site Accession # Q9H4A3
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

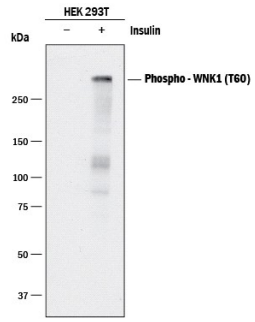
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human Phospho-WNK1 (T60) by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line untreated (-) or treated (+) with 1 µg/mL insulin for 5 minutes. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Human Phospho-WNK1 (T60) Monoclonal Antibody (Catalog # MAB4720) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-WNK1 (T60) at approximately 280 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

With No Lysine (K) 1 (WNK1) belongs to a novel family of serine/threonine protein kinases involved in regulating ion transport. The WNKs contain a cysteine instead of the usual lysine in their kinase activation domains. WNK1 mutations have been implicated in Pseudohypoaldosteronism type II (PHAII), an autosomal dominant disorder characterized by hypertension, increased renal salt absorption, and impaired potassium and hydrogen excretion. WNK1 is phosphorylated by Akt1 and Akt2 at T60, and may function as a negative regulator of insulin-stimulated mitogenesis.

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