

Active Recombinant Human WNK2 Protein, Flag tagged

Cat. No. WNK2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant WNK2 (1-489) protein that includes amino acids 1-489 of human WNK2 protein (accession number NP_006639.3) was expressed in a baculovirus expression system, and contains an N-terminal FLAG tag.
Species	Human
Source	Insect Cells
ProteinLength	1-489 aa
Description	WNK2 (WNK Lysine Deficient Protein Kinase 2), a serine/threonine kinase which plays an important role in the regulation of electrolyte homeostasis, cell signaling, survival, and proliferation. WNK2 acts as an activator and inhibitor of sodium-coupled chloride cotransporters and potassium-coupled chloride cotransporters respectively. This protein activates SLC12A2, SCNN1A, SCNN1B, SCNN1D and SGK1 and inhibits SLC12A5 and negatively regulates the EGF-induced activation of the ERK/MAPK-pathway and the downstream cell cycle progression. It also affects MAPK3/MAPK1 activity by modulating the activity of MAP2K1 and this modulation depends on phosphorylation of MAP2K1 by PAK1. WNK2 acts by interfering with the activity of PAK1 by controlling the balance of the activity of upstream regulators of PAK1 activity, RHOA and RAC1, which display reciprocal activity.
Form	25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

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Molecular Mass	55.3 kDa
Purity	≥ 85%
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.5 µg/µL
GENE INFORMATION	
Gene Name	WNK2 WNK lysine deficient protein kinase 2 [Homo sapiens (human)]
Official Symbol	WNK2
Synonyms	WNK2; WNK lysine deficient protein kinase 2; PRKWNK2, SDCCAG43, serologically defined colon cancer antigen 43; serine/threonine-protein kinase WNK2; KIAA1760; NY CO 43; antigen NY-CO-43; protein kinase with no lysine 2; protein kinase lysine-deficient 2; protein kinase, lysine deficient 2; serologically defined colon cancer antigen 43; mitogen-activated protein kinase kinase kinase; PRKWNK2; NY-CO-43; SDCCAG43; P/OKcl.13
Gene ID	65268
mRNA Refseq	NM_006648
Protein Refseq	NP_006639
MIM	606249

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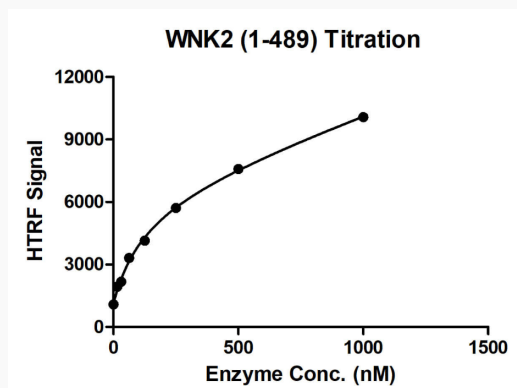
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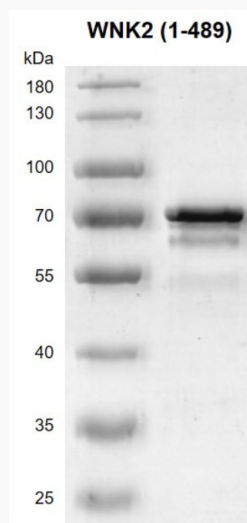
UniProt ID

Q9Y3S1

Activity



SDS-PAGE



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