

WNK2 recombinant protein

WNK2, Active

CATALOG # AAA74114	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

WNK2; Active; KIAA1760; NY-CO-43; P/OKcl.13; PRKWNK2; SDCCAG43; WNK2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for WNK2 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for WNK2 recombinant protein	Recombinant human WNK2 (1-489) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_006648. WNK2 is a serine/threonine kinase of the WNK (with no lysine (K)) protein kinase subfamily that also include WNK1, 3 and 4. The WNK kinases feature a cysteine residue in place of a lysine residue conserved in subdomain II of most kinases. WNK2 is predominantly expressed in brain, heart muscle, small intestine, and colon. As a tumor suppressor, WNK2 is involved in the modulation of growth factor-induced cancer cell proliferation through the MEK1/ERK1/2 pathway. WNK2 expression was found down-regulated epigenetically by promoter methylation in human gliomas.
Product Categories/Family for WNK2 recombinant protein	Protein Kinases; Cancer; Cardiovascular Disease; Cell Cycle; Ser/Thr Kinases

References

1. Veríssimo F, Jordan P. WNK kinases, a novel protein kinase subfamily in multi-cellular organisms. *Oncogene*. 2001 Sep 6;20(39):5562-9.
2. Moniz S. et al. Protein kinase WNK2 inhibits cell proliferation by negatively modulating the activation of MEK1/ERK1/2. *Oncogene*. 2007 Sep 6;26(41):6071-81.
3. Moniz S, et al. Loss of WNK2 expression by promoter gene methylation occurs in adult gliomas and triggers Rac1-mediated tumour cell invasiveness. *Hum Mol Genet*. 2013;22:84-95.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_006648](#)

Molecular Weight

~100kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/wnk2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74114>