

## WNK2 polyclonal antibody

Catalog: BS61294

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

The protein kinase superfamily contains over a thousand proteins in 57 subfamilies that all share a catalytic core of 250–300 amino acids organized in two domains. WNK, for “with no lysine (K)”, kinases are serine-threonine protein kinases that contain a cysteine residue in place of a lysine residue in a family of proteins that traditionally contain a lysine following a short string of hydrophobic residues. WNK kinases contain a lysine upstream of the traditional position, within a glycine string. This lysine functions as an anchor and orients ATP through interactions with the  $\alpha$  and  $\gamma$  phosphoryl groups. The catalytic domains of WNK2, WNK3 and WNK4 are 95% homologous to WNK1. The human WNK1 gene encodes a 2,382 amino acid protein that is primarily expressed in heart, kidney, muscle and distal nephron. The human WNK3 gene encodes a protein that is primarily expressed in brain; the human WNK4 gene encodes a 1,243 amino acid protein that is expressed in kidney. Aberrant function of WNK kinases and their associated signaling pathways are implicated in hypertension, increased renal salt reabsorption and impaired K<sup>+</sup> and H<sup>+</sup> excretion.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

### Molecular Weight:

~ 234 kDa

### Swiss-Prot:

Q9Y3S1

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

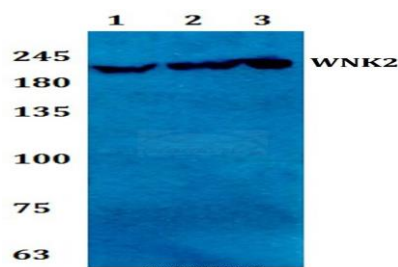
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

WNK2 polyclonal antibody detects endogenous levels of WNK2 protein.

### DATA:



Western blot (WB) analysis of WNK2 polyclonal antibody at 1:500

Line1:Hela whole cell lysate

Line2:H9C2 whole cell lysate

Line3:Raw264.7 whole cell lysate

### Note:

For research use only, not for use in diagnostic procedure.

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