

## WNK3 Polyclonal Antibody

<b>Catalog No :</b>	YN1273
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	WNK3
<b>Gene Name :</b>	WNK3 KIAA1566 PRKWNK3
<b>Protein Name :</b>	Serine/threonine-protein kinase WNK3 (EC 2.7.11.1) (Protein kinase lysine-deficient 3) (Protein kinase with no lysine 3)
<b>Human Gene Id :</b>	65267
<b>Human Swiss Prot No :</b>	Q9BYP7
<b>Mouse Swiss Prot No :</b>	Q80XP9
<b>Immunogen :</b>	Synthesized peptide derived from part region of human protein
<b>Specificity :</b>	WNK3 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	198kD

**Background :**

This gene encodes a protein belonging to the 'with no lysine' family of serine-threonine protein kinases. These family members lack the catalytic lysine in subdomain II, and instead have a conserved lysine in subdomain I. This family member functions as a positive regulator of the transcellular Ca<sup>2+</sup> transport pathway, and it plays a role in the increase of cell survival in a caspase-3-dependent pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010],

---

**Function :**

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,caution:Cys-176 is present instead of the conserved Lys which is expected to be an active site residue. Lys-159 appears to fulfill the required catalytic function.,cofactor:Magnesium.,enzyme regulation:Activation requires autophosphorylation of Ser-308. Phosphorylation of Ser-304 also promotes increased activity.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WNK subfamily.,similarity:Contains 1 protein kinase domain.,tissue specificity:Expressed in brain, lung, kidney, liver and pancreas, and in fetal tissues including placenta, fetal brain, lung and kidney. Very low levels of expression were also detected in fetal heart, thymus, liver and spleen.,

---

**Subcellular Location :**

Cytoplasm .

---

**Expression :**

Expressed in brain, lung, kidney, liver and pancreas, and in fetal tissues including placenta, fetal brain, lung and kidney. Very low levels of expression were also detected in fetal heart, thymus, liver and spleen. Isoform 1 is brain-specific. Isoform 3 is kidney-specific.

---

## Products Images