

Product datasheet for **AP06363PU-N**

WNK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 20-68 of Human WNK1.
Specificity:	This antibody detects endogenous levels of WNK1 protein. (region surrounding Tyr52)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 230 kDa
Gene Name:	WNK lysine deficient protein kinase 1
Database Link:	Entrez Gene 65125 Human Q9H4A3



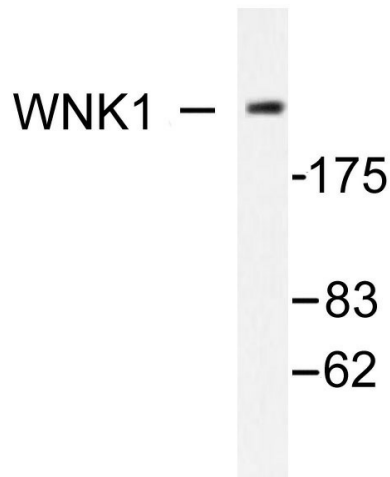
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Background:

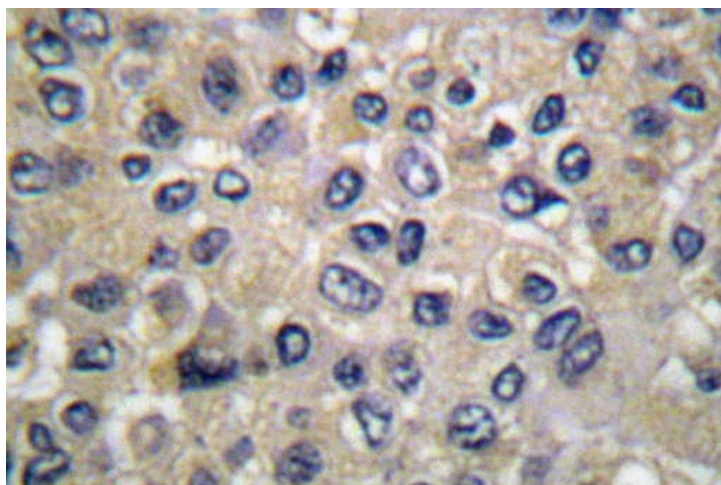
The protein kinase superfamily contains over a thousand proteins in 57 subfamilies that all share a catalytic core of 250 - 300 amino acids organized in two domains. WNK kinases (With No lysine (K)) are serine-threonine protein kinases that contain a cysteine residue in place of a lysine residue in a family of proteins that traditionally contain a lysine following a short string of hydro-phobic 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 beta phosphoryl groups. The catalytic domains of WNK2, WNK3 and WNK4 are 95% homologous to WNK1. Human WNK1 maps to chromosome 12p13 and encodes a 2382 protein that is primarily expressed in heart, kidney, muscle and distal nephron. Human WNK3 maps to chromosome Xp11.21-p11.23 and encodes a protein that is primarily expressed in brain. Human WNK4 maps to chromosome 17q21-q22 and encodes a 1243 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⁺ and H⁺ excretion.

Synonyms:

KDP, KIAA0344, PRKWNK1, p65

Product images:

Western blot (WB) analysis of WNK1 antibody in extracts from 293 cells treated with EGF 200ng/ml 30'.



Immunohistochemistry (IHC) analyzes of WNK1 antibody in paraffin-embedded human breast carcinoma tissue.