

DATASHEET

PRKWNK3 Rabbit Polyclonal Antibody

CAT. NO. APA13779

KEY FEATURES

Target	PRKWNK3	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Serine/threonine-protein kinase component of the WNK3-SPAK/OSR1 kinase cascade, which plays an important role in the regulation of electrolyte homeostasis and regulatory volume increase in response to hyperosmotic stress . WNK3 mediates regulatory volume increase in response to hyperosmotic stress by acting as a molecular crowding sensor, which senses cell shrinkage and mediates formation of a membraneless compartment by undergoing liquid-liquid phase separation . The membraneless compartment concentrates WNK3 with its substrates, OXSR1/OSR1 and STK39/SPAK, promoting WNK3-dependent phosphorylation and activation of downstream kinases OXSR1/OSR1 and STK39/SPAK .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

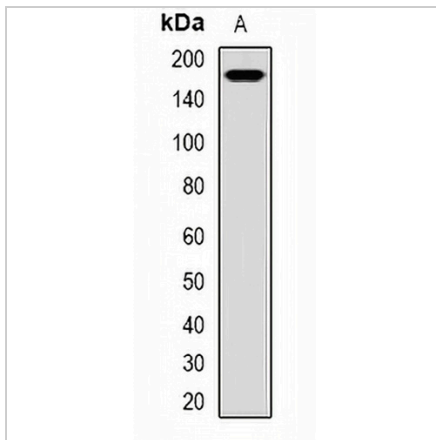
Description	Rabbit polyclonal antibody to PRKWNK3
Specificity	Recognizes endogenous levels of PRKWNK3 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human PRKWNK3
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 191; Observed: 198 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	KIAA1566; PRKWNK3; Serine/threonine-protein kinase WNK3; Protein kinase lysine-deficient 3; Protein kinase with no lysine 3
Gene Symbol	WNK3
Entrez Gene	65267(Human); 279561(Mouse)
SwissProt	Q9BYP7(Human); Q80XP9(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of PRKWNK3 expression in rat brain (A) whole cell lysates.
(Predicted band size: 191; 192; 197; 198 kD; Observed band size: 198 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.