

# KIRREL Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP19861b

## **Product Information**

Application WB, E
Primary Accession Q96|84

Other Accession <u>Q6X936</u>, <u>Q80W68</u>, <u>NP 060710.3</u>

Reactivity Human **Predicted** Mouse, Rat Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB41570 **Calculated MW** 83536 **Antigen Region** 505-534

#### **Additional Information**

**Gene ID** 55243

Other Names Kin of IRRE-like protein 1, Kin of irregular chiasm-like protein 1, Nephrin-like

protein 1, KIRREL, KIRREL1, NEPH1

Target/Specificity This KIRREL antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 505-534 amino acids from the

C-terminal region of human KIRREL.

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** KIRREL Antibody(C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **Protein Information**

Name KIRREL1 ( HGNC:15734)

Synonyms KIRREL, NEPH1

**Function** Required for proper function of the glomerular filtration barrier. It is

involved in the maintenance of a stable podocyte architecture with interdigitating foot processes connected by specialized cell-cell junctions, known as the slit diaphragm (PubMed:31472902). It is a signaling protein that needs the presence of TEC kinases to fully trans-activate the transcription

factor AP-1 (By similarity).

**Cell ular Location** Cell membrane; Single-pass type I membrane protein. Note=Predominantly

located at podocyte slit diaphragm

**Tissue Location** Abundantly expressed in kidney. Specifically expressed in podocytes of kidney

glomeruli

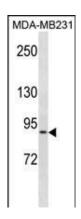
## **Background**

NEPH1 is a member of the nephrin-like protein family, which includes NEPH2 (MIM 607761) and NEPH3 (MIM 607762). The cytoplasmic domains of these proteins interact with the C terminus of podocin (NPHS2; MIM 604766), and the genes are expressed in kidney podocytes, cells involved in ensuring size- and charge-selective ultrafiltration (Sellin et al., 2003 [PubMed 12424224]).

#### References

Machuca, E., et al. J. Am. Soc. Nephrol. 21(7):1209-1217(2010) Wagner, M.C., et al. J. Biol. Chem. 283(51):35579-35589(2008) Hartleben, B., et al. J. Biol. Chem. 283(34):23033-23038(2008) Harita, Y., et al. J. Biol. Chem. 283(14):9177-9186(2008) Ihalmo, P., et al. Diabetologia 51(1):86-90(2008)

## **Images**



KIRREL Antibody (C-term) (Cat. #AP19861b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the KIRREL antibody detected the KIRREL protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.