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Rabbit Anti-KIRREL3 antibody

SL11864R

Product Name:	KIRREL3
Chinese Name:	肾病样蛋白3抗体
Alias:	Kin of IRRE like 3 (Drosophila); Kin of IRRE like 3; Kin of irregular chiasm like protein 3 ; KIRRE; KIRREL 3; KIRREL-3; MRD4; NEPH2; Nephrin like 2; PRO19814; PRO4502; yUNQ5923; KIRR3_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	83kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KIRREL3:561-450/778<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	NEPH2 is a 778 amino acid single-pass type I membrane protein that belongs to the nephrin-like protein family and immunoglobulin superfamily. Expressed in both fetal and adult brain, as well as podocytes of kidney glomeruli, NEPH2 contains five Ig-like C2-type (immunoglobulin-like) domains and is thought to plaly a role in the

hematopoetic supportive capacity of stroma cells. NEPH2 undergoes alternative splicing to produce two isoforms and contains a C-terminal cytoplasmic domain which it uses to interact with Podocin, a podocyte protein involved in ultrafiltration. Defects in the gene encoding NEPH2 are associated with mental retardation autosomal dominant type 4 (MRD4).

Function:
NEPH2 is a member of the nephrin like protein family, which includes NEPH1 (KIRREL; MIM 607428) and NEPH3 (KIRREL2; 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]).

Subunit:
Interacts with the C-terminus of NPHS2/podocin. Interacts with CASK.

Subcellular Location:
Cell membrane; Single-pass type I membrane protein

Tissue Specificity:
Expressed in fetal and adult brain. Also expressed in kidney, specifically in podocytes of kidney glomeruli.

DISEASE:
Note=A chromosomal aberration involving KIRREL3 and CDH15 is found in a patient with severe mental retardation and dysmorphic facial features. Translocation t(11;16)(q24.2;q24).
Defects in KIRREL3 are the cause of mental retardation autosomal dominant type 4 (MRD4) [MIM:612581]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period.

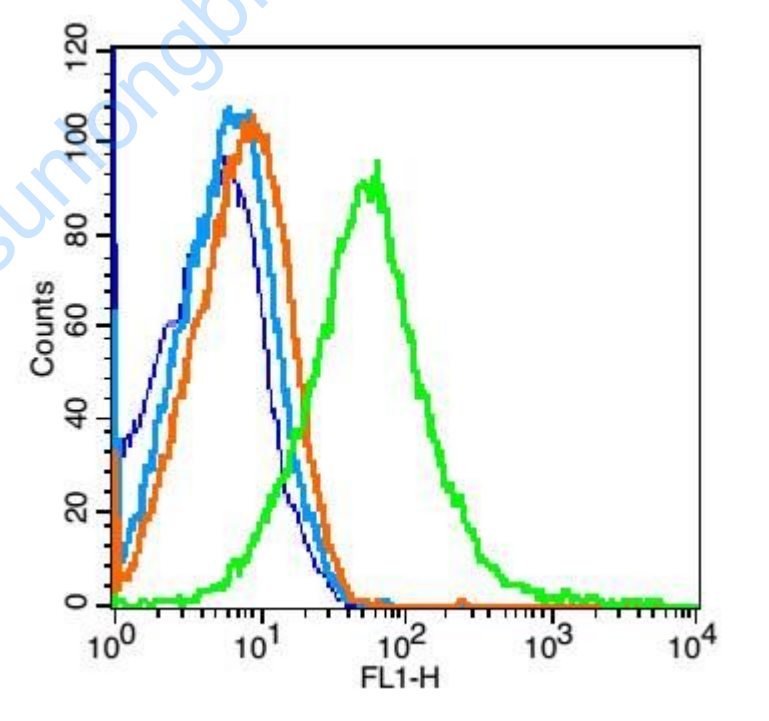
Similarity:
Belongs to the immunoglobulin superfamily.
Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:
Q8IZU9

Gene ID:
84623

Database links:

Entrez Gene: 84623Human

	Entrez Gene: 67703Mouse Entrez Gene: 315546Rat Omim: 607761Human SwissProt: Q8IZU9Human SwissProt: Q8BR86Mouse Unigene: 376015Human Unigene: 220710Mouse Unigene: 7602Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Blank control(blue):Mouse nephrocytes (fixed with 2% paraformaldehyde (10 min)). Primary Antibody:Rabbit Anti- KIRREL3 antibody(SL11864R), Dilution: 1μg in

	100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.