

KIRR3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9665b**Specification**

KIRR3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8IZU9](#)**KIRR3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 84623**Other Names**

Kin of IRRE-like protein 3, Kin of irregular chiasm-like protein 3, Nephrin-like protein 2, KIRREL3, KIAA1867, NEPH2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KIRR3 Antibody (C-term) Blocking Peptide - Protein Information**Name** KIRREL3 ([HGNC:23204](#))**Function**

Synaptic adhesion molecule required for the formation of target-specific synapses. Required for formation of target-specific synapses at hippocampal mossy fiber synapses. Required for formation of mossy fiber filopodia, the synaptic structures connecting dentate granule and GABA neurons. Probably acts as a homophilic adhesion molecule that promotes trans-cellular interactions and stabilize mossy fiber filopodia contact and subsequent synapse formation. Required for the coalescence of vomeronasal sensory neuron axons. May be involved in the hematopoietic supportive capacity of stroma cells; the secreted extracellular domain is directly responsible for supporting hematopoietic stem cells.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Expressed in fetal and adult brain (PubMed:19012874). Also expressed in kidney, specifically in podocytes of kidney glomeruli (PubMed:12424224). Also expressed in skeletal muscle (PubMed:25488023).

KIRR3 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

KIRR3 Antibody (C-term) Blocking Peptide - Images

KIRR3 Antibody (C-term) Blocking Peptide - Background

KIRR3 is a member of the nephrin-like protein family. These proteins are expressed in fetal and adult brain, and also in podocytes of kidney glomeruli. The cytoplasmic domains of these proteins interact with the C-terminus of podocin, also expressed in the podocytes, cells involved in ensuring size- and charge-selective ultrafiltration. Mutations in this gene are associated with mental retardation autosomal dominant type 4 (MRD4). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

KIRR3 Antibody (C-term) Blocking Peptide - References

Davila, S., et al. Genes Immun. (2010) In press :Anney, R.J., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (8), 1369-1378 (2008) Bhalla, K., et al. Am. J. Hum. Genet. 83(6):703-713(2008) Melzer, D., et al. PLoS Genet. 4 (5), E1000072 (2008) :Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003) Sellin, L., et al. FASEB J. 17(1):115-117(2003)