

For Research Use Only

LRFN2 Polyclonal antibody

Catalog Number: 27576-1-AP



Basic Information

Catalog Number:

27576-1-AP

Concentration:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24558

GenBank Accession Number:

BC142616

GeneID (NCBI):

57497

UNIPROT ID:

Q9ULH4

Full Name:

leucine rich repeat and fibronectin type III domain containing 2

Calculated MW:

789 aa, 85 kDa

Observed MW:

85-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: mouse brain tissue, mouse cerebellum tissue, mouse retina tissue, rat brain tissue

Background Information

LRFN2, also known as SALM1. It is mainly located in cell membrane and cytoplasm, and it is expressed at the synaptic contact at the base of cone cells, especially at the base of presynaptic endings, which is closely related to the dendrites of OFF bipolar cells (PMID: 40251167). In mammals, LRFN2 is mainly expressed in cone cells, but not in rod cells, and its expression in other retinal neurons is limited. In addition, the expression level in embryonic nerve cells is relatively low, mainly in more mature cells. LRFN2 plays a key role in synaptic transmission between cone cells and OFF bipolar cells. It can maintain the physical connection between cone cells and OFF bipolar cells, and gather glutamate receptors at the postsynaptic membrane to ensure strong dendritic transmission in OFF pathway, thus participating in the transmission of visual signals, which is very important for the coding of visual contrast and the defense behavior driven by looming. In bladder cancer, the increased expression of LRFN2 will inhibit the infiltration and functional transformation of CD8+ T cells, thus weakening the anti-tumor immune response, leading to bladder cancer resistance to immune checkpoint inhibitors, and its high expression is related to the poor prognosis of bladder cancer patients (PMID:37802603).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

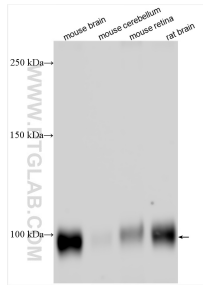
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27576-1-AP (LRFN2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.