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Anti-GLURD2 Antibody

Catalog # AP60300

Product Information

Application	WB, IF/IC
Primary Accession	O43424
Reactivity	Human, Mouse, Rat, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113356

Additional Information

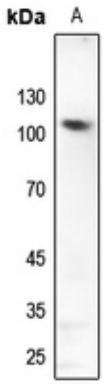
Gene ID	2895
Other Names	GLURD2; Glutamate receptor ionotropic, delta-2; GluD2; GluR delta-2 subunit
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GLURD2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

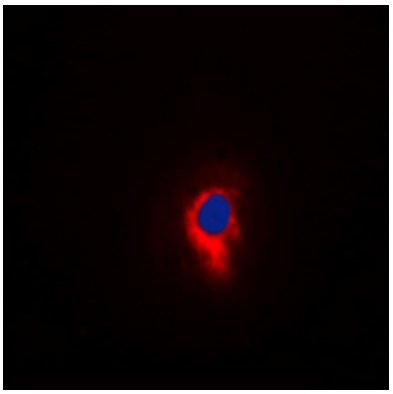
Name	GRID2
Synonyms	GLURD2
Function	Member of the ionotropic glutamate receptor family, which plays a crucial role in synaptic organization and signal transduction in the central nervous system (PubMed:34936451, PubMed:27418511, PubMed:40957579). Although it shares structural features with ionotropic glutamate receptors, does not bind glutamate as a primary ligand (PubMed:34936451). Promotes synaptogenesis and mediates the D- serine-dependent long term depression signals and AMPA receptor endocytosis of cerebellar parallel fiber-Purkinje cell (PF-PC) synapses through the NRX1B-CBLN1-GRID2 triad complex (PubMed:27418511). In the presence of neurexins and cerebellins, forms cation-selective channels that are proposed to be gated by glycine and D-serine (PubMed:34936451). Cation-selective ion channel activity can be triggered by GRM1 in Purkinje cells (PubMed:24357660, PubMed:27276689).
Cellular Location	Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q61625}; Multi-pass

membrane protein

Images



Western blot analysis of GLURD2 expression in zebrafish (A) whole cell lysates. (Predicted band size: 113 kD; Observed band size: 113 kD)



Immunofluorescent analysis of GLURD2 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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