Human CellExp™ LRRC4 /NGL-2, human recombinant

CATALOG #: 7461-10 10 µg
7461-50 50 µg

ALTERNATE NAMES: LRRC4, NGL-2, BAG, NAG14.

SOURCE: HEK 293 cells (Ala 39 – Lys 527)

PURITY: ≥ 92% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 55.6 kDa. The predicted N-terminus is Ala 39. DTT-reduced Protein migrates as 90-110 kDa due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

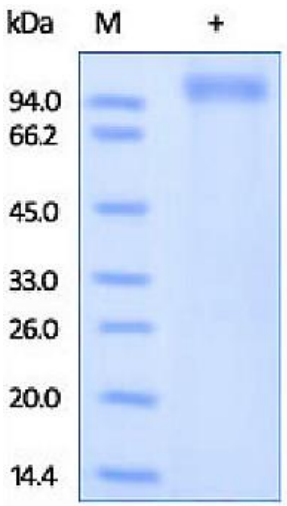
FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: LRRC4 (Leu-rich repeat/LRR-containing glycoprotein 4), LRRC4B and LRRC4C are post-synaptic adhesion molecules of the LRR protein family that induce excitatory synapse formation. LRRC4 is also known as Brain tumor-associated protein BAG, Netrin-G2 ligand (NGL-2), Nasopharyngeal carcinoma-associated gene 14 protein (NAG14), which contains 1 Ig-like (immunoglobulin-like) domain and 9 LRR (leucine-rich) repeats, 1 LRRCT domain, 1 LRRNT domain. LRRC4 / NGL-2 specifically expressed in brain. LRRC4 / NGL-2 regulates the formation of excitatory synapses through the recruitment of pre-and-postsynaptic proteins. LRRC4 / NGL-2 organize the lamina/pathway-specific differentiation of dendrites. LRRC4 / NGL-2 plays an important role for auditory synaptic responses and involved in the suppression of glioma.

BIOLOGICAL ACTIVITY: Measured by its binding ability in a functional ELISA. Immobilized Recombinant mouse Netrin-G2a Fc chimera at 4 µg/ml, can bind rhLRRC4 with an apparent KD < 10 nM.



Human recombinant LRRC4/NGL-2

RELATED PRODUCTS:

- Netrin-1, human recombinant **(Cat. No. 7575-10)**
- UNC5B, human recombinant **(Cat. No. 7576-10)**

FOR RESEARCH USE ONLY! Not to be used in humans.