

Active Recombinant Human Leucine Rich Repeat Containing 4, His-tagged

Cat. No. LRRC4-5680H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRRC4 protein was expressed in CHO with a C-terminal 6-His tag. Ala39-Lys527.
Species	Human
Source	CHO
Protein Length	39-527 a.a.
Description	LRRC4, also called NGL2 or NAG14 is a 55 kDa (predicted) type I transmembrane protein that is a member of the NGL family of synaptic LRR adhesion molecules. Human LRRC4 cDNA encodes 653 amino acids (aa) that include a 38 aa signal sequence, a 489 aa extracellular domain (ECD), a 21 aa transmembrane domain, and a 105 aa cytoplasmic domain. The ECD contains nine LRRs (aa 74-288), a C2 type Ig like domain (aa 354-440), and a Thr-rich segment (aa 455-526).
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala39
Molecular Weight	55.6 kDa
Activity	Measured by its binding ability in a functional ELISA. When rmNetrinG2a/Fc is coated at 5 µg/mL, rhLRRC4 binds with an apparent KD < 10 nM.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	90-110kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	400µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	LRRC4 leucine rich repeat containing 4 [Homo sapiens]
Official Symbol	LRRC4
Synonyms	LRRC4; leucine rich repeat containing 4; NAG14; NGL-2; MGC133342; MGC133343; leucine-rich repeat-containing protein 4; netrin-G2 ligand; leucine-rich repeat-containing 4; brain tumor-associated protein BAG; brain tumor associated protein LRRC4; nasopharyngeal carcinoma-associated gene 14 protein; UNQ554/PRO1111; BAG; OTTHUMP00000212281; OTTHUMP00000212284
Gene ID	64101
mRNA Refseq	NM_022143
Protein Refseq	NP_071426

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MIM	610486
UniProt ID	Q9HBW1
Chromosome Location	7q31
PDBrendering based on 2dl9.	