

## Recombinant Human NEDD4L Protein (A2-D975), Tag Free

**Cat. No.** NEDD4L-0438H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant Human (GG)-NEDD4L(A2-D975 end) Protein was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | A2-D975                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Inhibits TGF-beta signaling by triggering SMAD2 and TGFBR1 ubiquitination and proteasome-dependent degradation. Promotes ubiquitination and internalization of various plasma membrane channels such as ENaC, SCN2A/Nav1.2, SCN3A/Nav1.3, SCN5A/Nav1.5, SCN9A/Nav1.7, SCN10A/Nav1.8, KCNA3/Kv1.3, KCNH2, EAAT1, KCNQ2/Kv7.2, KCNQ3/Kv7.3 or CLC5. Promotes ubiquitination and degradation of SGK1 and TNK2. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1. Plays a role in dendrite formation by melanocytes. Involved in the regulation of TOR signaling. Ubiquitinates and regulates protein levels of NTRK1 once this one is activated by NGF. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin</b>        | < 0.01 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.                                                                           |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol                                                                                                |
| <b>Shipping</b>       | It is shipped out with blue ice.                                                                                                                                    |

## GENE INFORMATION

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NEDD4L neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase [ Homo sapiens (human) ]                                                                                                                                                                                        |
| <b>Official Symbol</b> | NEDD4L                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | NEDD4L; neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase; neural precursor cell expressed, developmentally down regulated 4 like; E3 ubiquitin-protein ligase NEDD4-like; KIAA0439; NEDD4 2; RSP5; ubiquitin-protein ligase Rsp5; NEDD4-2; NEDD4.2; hNEDD4-2; FLJ33870; |
| <b>Gene ID</b>         | 23327                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_001144964                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_001138436                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>             | 606384                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>      | Q96PU5                                                                                                                                                                                                                                                                                                                     |

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