

## Recombinant Human LAMP1 Protein, C-His-tagged

**Cat. No.** LAMP1-093H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human LAMP1 Protein with C-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Lysosome-associated membrane protein 1 and 2 (LAMP1 and LAMP2) are two abundant lysosomal membrane proteins. Both are transmembrane proteins and are heavily glycosylated at the amino-terminal luminal side of the lysosomal inner leaflet, which protects the proteins from proteolysis. The carboxy terminus of LAMP1 is exposed to the cytoplasm and contains a tyrosine sorting motif that targets LAMP to lysosomal membranes. LAMP1 and LAMP2 are 37% homologous in their protein sequences. Both LAMP1 and LAMP2 are involved in regulating lysosomal motility during lysosome-phagosome fusion and cholesterol trafficking. |
| <b>Molecular Mass</b>   | ~39 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | AMFMVKNNGGTACIMANFSAAFSVNYDTKSGPKNMTFDLPDATVVLNRSSCGKE<br>NTSDPSLVIAFGRGHTLTNLNFTRNATRYSVQLMSFVYNLSDLHLPNASSKEIKTVES<br>ITDIRADIDKKYRCVSGTQVHMNNVTVTLHDAITQAYLSNSSFSRGETRCEQDRPSP<br>TTAPPAPPSPSPSPVPKSPSVDKYNVSGTNGTCLLASMGLQLNLTYERKDNTTCTRL<br>LNINPNKTSASGSCGAHLVTLELHSEGTTVLLFQFGMNASSSRFFLQGIQLNTILPDA<br>RDPAFKAANGSLRALQATVGNSYKCNAAEEHVRVTKAFSVNIFKVWVQAFKVEGGQF<br>GSVEECLLDENSM                                                                                                                                                                                                                                           |

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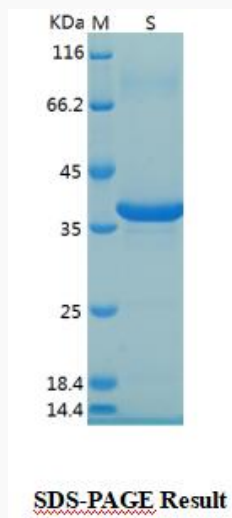
|                         |                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).                                                           |
| <b>Notes</b>            | For research use only, not for use in diagnostic procedure.                                                                                                                                             |
| <b>Storage</b>          | Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.                                                                                              |
| <b>Concentration</b>    | ≥0.5 mg/mL                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | PBS, 4M Urea, pH7.4                                                                                                                                                                                     |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                         |
| <b>Gene Name</b>        | LAMP1 lysosomal-associated membrane protein 1 [ Homo sapiens (human) ]                                                                                                                                  |
| <b>Official Symbol</b>  | LAMP1                                                                                                                                                                                                   |
| <b>Synonyms</b>         | LAMP1; lysosomal-associated membrane protein 1; lysosome-associated membrane glycoprotein 1; CD107a; LAMP-1; CD107 antigen-like family member A; lysosome-associated membrane protein 1; LAMPA; LGP120; |
| <b>Gene ID</b>          | 3916                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>      | NM_005561                                                                                                                                                                                               |
| <b>Protein Refseq</b>   | NP_005552                                                                                                                                                                                               |
| <b>MIM</b>              | 153330                                                                                                                                                                                                  |
| <b>UniProt ID</b>       | P11279                                                                                                                                                                                                  |

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## SDS-PAGE



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