

## Recombinant Human ribosomal protein, large, P0

**Cat. No.** RPLP0-198H    **Lot. No.** (See product label)

### SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b>        | Recombinant Human Ribosomal Phosphoprotein P0 (His-tagged) produced in <i>Sf9</i> is a glycosylated, polypeptide chain. The protein has a molecular mass of 35,096 dalton. The protein is purified by proprietary chromatographic techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>                  | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>             | The ribosomal phosphoproteins, also called P protein antigens, are associated with the large ribosomal subunit and therefore are antigenic targets with a cytoplasmic localization. Three P proteins have been described: P0 with a molecular weight of 35 kDa, P1 (19 kDa) and P2 (17 kDa). Autoantibodies against ribosomal P proteins are present in 10 % of SLE patients. If anti-ribosomal P antibodies were to occur in the absence of other typical SLE associated autoantibodies, they may account for some patients with so-called ANA-negative lupus. It has been reported that lupus patients positive for anti-ribosomal P autoantibodies have a high frequency of CNS involvement, suggesting a marker use for these antibodies. |
| <b>Formulation</b>             | Recombinant Human Ribosomal Phosphoprotein P0 is supplied at a of 0.9mg/ml in 20mM HEPES buffer pH-7.5, 0.01 mM EDTA. 0.02% SDS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Immunological Functions</b> | 1. Binds IgG-type human auto-antibodies. 2. Standard ELISA test (checker-board analysis of positive/negative sera panels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>            | Western-Blot with monoclonal anti-hexa-His-tag antibody & SLE sera (Systemic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                              |                                                                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | Lupus Erythematoses Disease).                                                                                                                    |
| <b>Purity</b>                | Greater than 80% (SDS-PAGE).                                                                                                                     |
| <b>Coating Concentration</b> | 0.3-0.7 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.                              |
| <b>Storage Conditions</b>    | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | RPLP0 ribosomal protein, large, P0 [ Homo sapiens ]                                                                                                                                                             |
| <b>Synonyms</b>            | RPLP0; ribosomal protein, large, P0; P0; L10E; RPP0; PRLP0; MGC88175; MGC111226; RPLP0; 60S acidic ribosomal protein P0; acidic ribosomal phosphoprotein P0; ribosomal protein P0; ribosomal protein, large, P0 |
| <b>Gene ID</b>             | 6175                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_001002                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_000993                                                                                                                                                                                                       |
| <b>MIM</b>                 | 180510                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | P05388                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 12q24.2                                                                                                                                                                                                         |

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| <b>Pathway</b> | Ribosome; Gene Expression; Influenza Infection; Metabolism of proteins |
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| <b>Function</b> | RNA binding;protein binding;structural constituent of ribosome |
|-----------------|----------------------------------------------------------------|

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