

# Recombinant Human Ribosomal Protein S27a

**Cat. No.** RPS27A-79H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b>    | Recombinant human ubiquitin expressed in <i>Escherichia coli</i> and purified by ion-exchange chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>         | Recombinant Human Ubiquitin (Ub) is a small protein composed of 76 amino acids and having a molecular mass of 8.6kDa. Ub is found only in eukaryotic organisms among which it shows strong sequence conservation. The protein is present in all cell types, thus giving rise to its name. Ub is found either in free form or conjugated to proteins through a covalent bond between the glycine at the C-terminal end of Ub and the side chains of lysine on the proteins. The attachment of multiple copies of ubiquitin targets the proteins for degradation by the 26S proteasome. Ubiquitin ligation is an ATP-dependent multi-step process: Ub is activated by the E1 enzyme, the attachment of Ub to the target protein is catalyzed by the E2 enzyme acting in concert with E3 which plays a role in recognizing the substrate protein. |
| <b>Amino Acid Sequence</b> | MQIFVKLTG KTITLEVEPS DTIENVKAKI QDKEGIPPDQ QRLIFAGKQL<br>EDGRTLSDYN IQKESTLHLV LRLRGG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Physical Appearance</b> | Sterile filtered colorless solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>              | Minimum 95% as estimated by analysis of Coomassie blue stained SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Formulation</b>         | 1mg/ml containing 50mM HEPES (pH7.5) 150mM NaCl, 1mM DTT and 10%glycerol.                                                                                                                                               |
| <b>Storage</b>             | Store at -20°C if intended use is longer than 1 week, store at 4°C for a period up to 1 week, please avoid freeze thaw cycles.                                                                                          |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                         |
| <b>Gene Name</b>           | RPS27A ribosomal protein S27a [ Homo sapiens ]                                                                                                                                                                          |
| <b>Synonyms</b>            | RPS27A; ribosomal protein S27a; CEP80; UBA80; UBCEP1; UBCEP80; HUBCEP80; ubiquitin and ribosomal protein S27a; ubiquitin-CEP80; OTTHUMP00000200786; 40S ribosomal protein S27a; ubiquitin carboxyl extension protein 80 |
| <b>Gene ID</b>             | 6233                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_001135592                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_001129064                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | P62979                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 2p16                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 191343                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Ribosome; Gene Expression; Influenza Infection; Metabolism of proteins                                                                                                                                                  |
| <b>Function</b>            | metal ion binding; structural constituent of ribosome; zinc ion binding                                                                                                                                                 |

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