



Recombinant Human Protein phosphatase 1 regulatory subunit 12B (PPP1R12B), partial

| | |
|--------------------------|---|
| Product Code | CSB-BP018512HU |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | O60237 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | ≥85% (SDS-PAGE) |
| Source | Baculovirus |
| Target Names | PPP1R12B |
| Protein Names | Recommended name: Protein phosphatase 1 regulatory subunit 12B Alternative name(s): Myosin phosphatase-targeting subunit 2 Short name= Myosin phosphatase target subunit 2 |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | Tag type will be determined during the manufacturing process. |
| Protein Length | Partial |
| Target Details | Myosin light chain phosphatase (MLCP) consists of three subunits- catalytic subunit, large subunit/myosin binding subunit (MBS) and small subunit (sm-M20). This gene is a multi-functional gene which encodes both MBS and sm-M20. MLCP regulates myosins and the dephosphorylation is enhanced by the presence of MBS. The sm-M20 is suggested to play a regulatory role in muscle contraction by binding to MBS. There are two MBS subunits; myosin light chain phosphatase target subunit 1 (MYPT1)-MBS is encoded by another gene, and myosin light chain phosphatase target subunit 2 (MYPT2)-MBS is encoded by this gene. sm-M20 shows higher binding affinity to MYPT1-MBS than to MYPT2-MBS, even though the two MBS proteins are highly similar. Although both MBSs increase the activity of MLCP, MYPT1-MBS is a more efficient activator. Multiple alternatively spliced transcript variants have been found. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| Shelf Life | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |