# Recombinant Saccharomyces cerevisiae GTP-binding protein YPT1 (YPT1)

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| **Product Code** | CSB-YP360492SVG |
| **Relevance** | The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. YPT1 regulates the trafficking of secretory vesicles from the endoplasmic reticulum (ER) to the Golgi. Vesicular transport depends on shuttling of YPT1 between membrane and cytosol by GDI1, probably by recycling it to its membrane of origin after a vesicle fusion event. Plays a role in the initial events of the autophagic vacuole development which take place at specialized regions of the endoplasmic reticulum. Also involved in the recycling of membrane proteins. |
| **Abbreviation** | Recombinant Saccharomyces cerevisiae YPT1 protein |
| **Storage** | 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. |
| **Uniprot No.** | P01123 |
| **Alias** | Protein YP2 Rab GTPase YPT1 Transport GTPase YPT1 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Saccharomyces cerevisiae (strain ATCC 204508 / S288c) (Baker's yeast) |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Sequence** | MNSEYDYLFKLLLIGNSGVGKSCLLLRFSDDTYTNDYISTIGVDFKIKTVELDGK TVKLQIWDTAGQERFRTITSSYYRGSHGIIIVYDVTDQESFNGVKMWLQEIDRY ATSTVLKLLVGNKCDLKDKRVVEYDVAKEFADANKMPFLETSALDSTNVEDAF LTMARQIKESMSQQNLNETTQKKEDKGNVNLKGQSLTNTGGGCC |
| **Research Area** | Signal Transduction |
| **Source** | Yeast |
| **Target Names** | YPT1 |
| **Protein Names** | Recommended name: GTP-binding protein YPT1 Alternative name(s): Protein YP2 Rab GTPase YPT1 Transport GTPase YPT1 |
| **Expression Region** | 1-206aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | N-terminal 6xHis-tagged |
| **Mol. Weight** | 25.2kDa |

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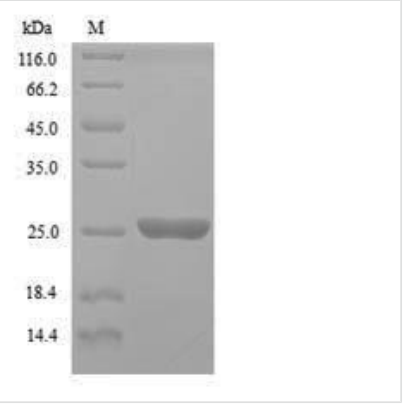
| **Protein Length** | Full Length |

**Image**




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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| **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.<br>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. |