

Recombinant *Saccharomyces Cerevisiae* YPT1 Protein (1-206 aa), His-SUMO-tagged

Cat. No. YPT1-1769S **Lot. No.** (See product label)

SPECIFICATION

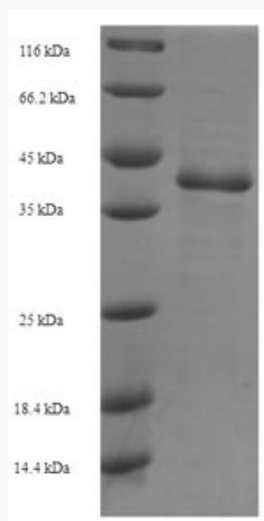
Product Overview	Recombinant <i>Saccharomyces Cerevisiae</i> (strain ATCC 204508/S288c) (Baker's yeast) YPT1 Protein (1-206 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length.
Species	<i>S.cerevisiae</i>
Source	E.coli
ProteinLength	1-206 aa
Description	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.
Form	Tris-based buffer, 50% glycerol

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Molecular Mass	39.2 kDa
AA Sequence	MNSEYDYLFKLLLLIGNSGVGKSCLLLRFSDDTYTNDYISTIGVDFKIKTVELDGKTVKL QIWDTAGQERFRTITSSYYRGSHGIIIVYDVTDAQESFNGVKMWLQEIDRYATSTVLKL LVGNKCDLKDKRVVEYDVAKEFADANKMPFLETSA LDSTNVEDAFLTMARQIKESM SQQNLNETTQKKEDKGNVNLKGQSLTNTGGGCC
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.
GENE INFORMATION	
Synonyms	YPT1; Protein YP2 Rab GTPase YPT1 Transport GTPase YPT1;
UniProt ID	P01123



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

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