

## RPN2/Ribophorin II Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P76575
<b>Synonyms:</b>	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2; RIBIIR; RPN-II; RPN2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P04844/NP_002942.2 (L23-V540)
<b>Gene ID:</b>	6185
<b>Molecular Weight:</b>	Approximately 60 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L T P T H Y L T K H   D V E R L K A S L D   R P F T N L E S A F   Y S I V G L S S L G A Q V P D A K K A C   T Y I R S N L D P S   N V D S L F Y A A Q   A S Q A L S G C E I S I S N E T K D L L   L A A V S E D S S V   T Q I Y H A V A A L   S G F G L P L A S Q E A L S A L T A R L   S K E E T V L A T V   Q A L Q T A S H L S   Q Q A D L R S I V E E I E D L V A R L D   E L G G V Y L Q F E   E G L E T T A L F V   A A T Y K L M D H V G T E P S I K E D Q   V I Q L M N A I F S   K K N F E S L S E A   F S V A S A A A V L S H N R Y H V P V V   V V P E G S A S D T   H E Q A I L R L Q V   T N V L S Q P L T Q A T V K L E H A K S   V A S R A T V L Q K   T S F T P V G D V F   E L N F M N V K F S S G Y Y D F L V E V   E G D N R Y I A N T   V E L R V K I S T E   V G I T N V D L S T V D K D Q S I A P K   T T R V T Y P A K A   K G T F I A D S H Q   N F A L F F Q L V D V N T G A E L T P H   Q T F V R L H N Q K   T G Q E V V F V A E   P D N K N V Y K F E L D T S E R K I E F   D S A S G T Y T L Y   L I I G D A T L K N   P I L W N V A D V V I K F P E E E A P S   T V L S Q N L F T P   K Q E I Q H L F R E   P E K R P P T V           </pre>
<b>Biological Activity</b>	Data is not available.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

RPN2/Ribophorin II, a subunit of the oligosaccharyl transferase (OST) complex, plays a crucial role in catalyzing the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. This pivotal step marks the initiation of protein N-glycosylation, a cotranslational process occurring during protein synthesis. The OST complex, in which RPN2/Ribophorin II is an integral component, associates with the Sec61 complex at the translocon complex, facilitating the translocation of proteins across the endoplasmic reticulum (ER) membrane. The synergistic presence of all subunits within the OST complex is essential for achieving maximal enzyme activity. In essence, RPN2/Ribophorin II's involvement in protein modification, specifically protein glycosylation, underscores its fundamental role in the initial stages of N-glycosylation, contributing to the structural and functional diversity of glycoproteins in the cell.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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