

WIBG Protein, Human (His)

Cat. No.:	HY-P71433
Synonyms:	Partner of Y14 and Mago; Protein Wibg Homolog; WIBG; PYM
Species:	Human
Source:	E. coli
Accession:	Q9BRP8 (M1-L204)
Gene ID:	84305
Molecular Weight:	16-30 kDa

PROPERTIES

AA Sequence	<pre> M E A A G S P A A T E T G K Y I A S T Q R P D G T W R K Q R R V K E G Y V P Q E E V P V Y E N K Y V K F F K S K P E L P P G L S P E A T A P V T P S R P E G G E P G L S K T A K R N L K R K E K R R Q Q Q E K G E A E A L S R T L D K V S L E E T A Q L P S A P Q G S R A A P T A A S D Q P D S A A T T E K A K K I K N L K K K L R Q V E E L Q Q R I Q A G E V S Q P S K E Q L E K L A R R R A L E E E L E D L E L G L </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>WIBG, a pivotal regulator of the exon junction complex (EJC), plays a central role in post-transcriptional processes within the cytoplasm, serving as a key component of the EJC, which associates immediately upstream of the exon-exon junction on mRNAs. Functioning as an EJC disassembly factor, WIBG facilitates translation-dependent EJC removal and recycling by disrupting mature EJC from spliced mRNAs. Its interaction with the 40S ribosomal subunit likely prevents translation-independent EJC disassembly, confining its activity to translated mRNAs. WIBG's involvement interferes with nonsense-mediated mRNA decay (NMD) and enhances the translation of spliced mRNAs, potentially through its antagonistic role against EJC functions. While its RNA-binding capability has been detected, the in vivo relevance of this interaction remains</p>
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unclear. WIBG's direct interaction with MAGOH and RBM8A, along with its association with the 40S ribosomal subunit and the 48S preinitiation complex, underscores its intricate involvement in orchestrating post-transcriptional regulatory processes.

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

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