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Product datasheet for PH327106

WIBG (PYM1) (NM_001143853) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	WIBG MS Standard C13 and N15-labeled recombinant protein (NP_001137325)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC227106
Predicted MW:	22.5 kDa
Protein Sequence:	>RC227106 representing NM_001143853 Red=Cloning site Green=Tags(s) MATPYVTDETGGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVKFFKSKPELPPGLSPEATAPV TPSRPEGGEPGLSKTAKRNLKRKEKRRQQQEKGEAEALSRTLDKVSLEETAQLPSAPQGSRAAPTAASDQ PDSAATTEKAKKIKNLKKKLRQVEELQQRIQAGEVSQPSKEQLEKLARRRALEEELEDLELGL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001137325
RefSeq ORF:	609
Synonyms:	PYM; WIBG
Locus ID:	84305
UniProt ID:	Q9BRP8
Cytogenetics:	12q13.2

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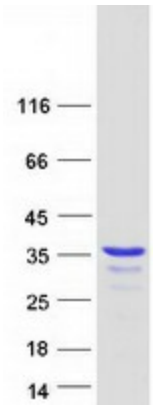
Summary: Key regulator of the exon junction complex (EJC), a multiprotein complex that associates immediately upstream of the exon-exon junction on mRNAs and serves as a positional landmark for the intron exon structure of genes and directs post-transcriptional processes in the cytoplasm such as mRNA export, nonsense-mediated mRNA decay (NMD) or translation. Acts as an EJC disassembly factor, allowing translation-dependent EJC removal and recycling by disrupting mature EJC from spliced mRNAs. Its association with the 40S ribosomal subunit probably prevents a translation-independent disassembly of the EJC from spliced mRNAs, by restricting its activity to mRNAs that have been translated. Interferes with NMD and enhances translation of spliced mRNAs, probably by antagonizing EJC functions. May bind RNA; the relevance of RNA-binding remains unclear in vivo, RNA-binding was detected by PubMed:14968132, while PubMed:19410547 did not detect RNA-binding activity independently of the EJC.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified PYM1 protein (Cat# [TP327106]). The protein was produced from HEK293T cells transfected with PYM1 cDNA clone (Cat# [RC227106]) using MegaTran 2.0 (Cat# [TT210002]).