

Product datasheet

Recombinant Human Y14 protein ab105606

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Description

Product name	Recombinant Human Y14 protein
Purity	> 90 % SDS-PAGE. ab105606 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>Q9Y5S9</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MADVLDLHEA GGEDFAMDED GDESIHKLKE KAKKRKGRGF GSEEGSRARM REDYDSVEQD GDEPGPQRSV EGWILFVTGV HEEATEEDIH DKFAEYGEIK NIHLNLD RRT GYLKGYTLVE YETYKEAQAA MEGLNGQDLM GQPISVDWCF VRGPPK GKRR GGRRRSRSPD RRRRLEHHHH HH
Predicted molecular weight	21 kDa including tags
Amino acids	1 to 174
Tags	His tag C-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab105606** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function

Component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of a few core proteins and several more peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Core components of the EJC, that remains bound to spliced mRNAs throughout all stages of mRNA metabolism, functions to mark the position of the exon-exon junction in the mature mRNA and thereby influences downstream processes of gene expression including mRNA splicing, nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). The heterodimer MAGOH-RBM8A interacts with PYM that function to enhance the translation of EJC-bearing spliced mRNAs by recruiting them to the ribosomal 48S preinitiation complex. Remains associated with mRNAs in the cytoplasm until the mRNAs engage the translation machinery. Its removal from cytoplasmic mRNAs requires translation initiation from EJC-bearing spliced mRNAs. Associates preferentially with mRNAs produced by splicing. Does not interact with pre-mRNAs, introns, or mRNAs produced from intronless cDNAs. Associates with both nuclear mRNAs and newly exported cytoplasmic mRNAs. Complex with MAGOH is a component of the nonsense mediated decay (NMD) pathway.

Tissue specificity

Ubiquitous.

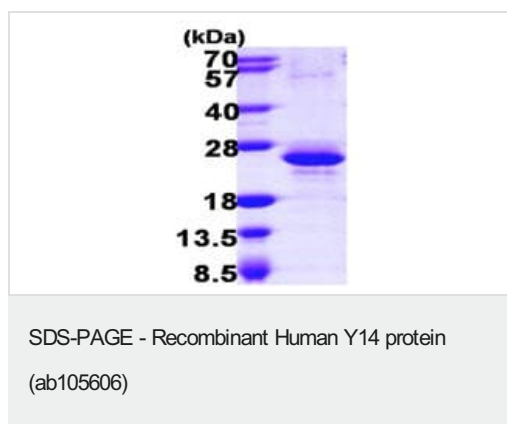
Sequence similarities

Belongs to the RBM8A family.
Contains 1 RRM (RNA recognition motif) domain.

Cellular localization

Nucleus. Nucleus speckle. Cytoplasm. Nucleocytoplasmic shuttling protein. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. Colocalizes with the core EJC, THOC4, NXF1 and UAP56 in the nucleus and nuclear speckles.

Images



15% SDS-PAGE showing ab105606 (3 µg) at approximately 20.9 kDa.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours

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- We investigate all quality concerns to ensure our products perform to the highest standards

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