


## Product datasheet

# Anti-Y14 antibody [EPR13945(B)] ab181038

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [1 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-Y14 antibody [EPR13945(B)]
<b>Description</b>	Rabbit monoclonal [EPR13945(B)] to Y14
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	HeLa, Jurkat, HepG2 and 293T cell lysates. Permeabilized Jurkat cells. Immunoprecipitation pellet from Jurkat whole cell lysate ( <a href="#">ab7899</a> ).
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal

Clone number                   EPR13945(B)  
Isotype                            IgG

## Applications

**The Abpromise guarantee**           Our **Abpromise guarantee** covers the use of ab181038 in the following tested applications.

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

Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 19 kDa.
IP		1/10 - 1/100.

## Target

### 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.

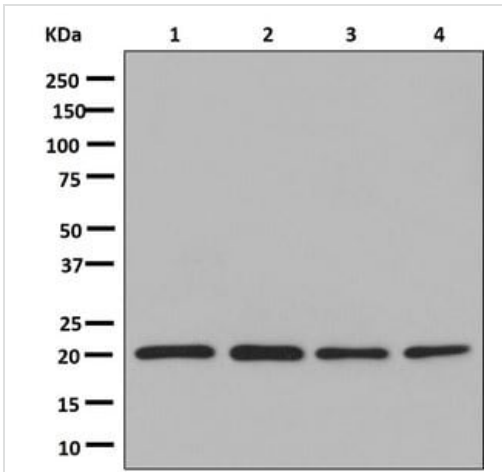
### Sequence similarities

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



Western blot - Anti-Y14 antibody [EPR13945(B)] (ab181038)

**All lanes :** Anti-Y14 antibody [EPR13945(B)] (ab181038) at 1/1000 dilution

**Lane 1 :** HeLa cell lysate

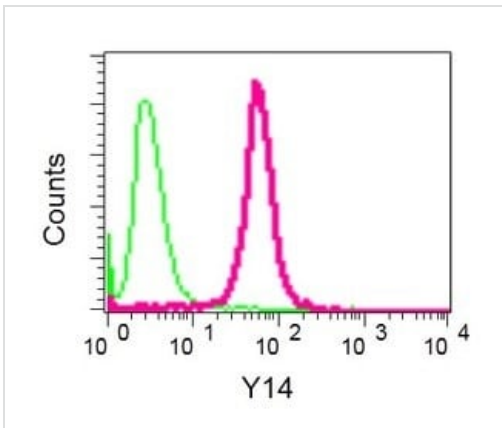
**Lane 2 :** Jurkat cell lysates

**Lane 3 :** HepG2 cell lysate

**Lane 4 :** 293T (Human embryonic kidney epithelial cell) cell lysate

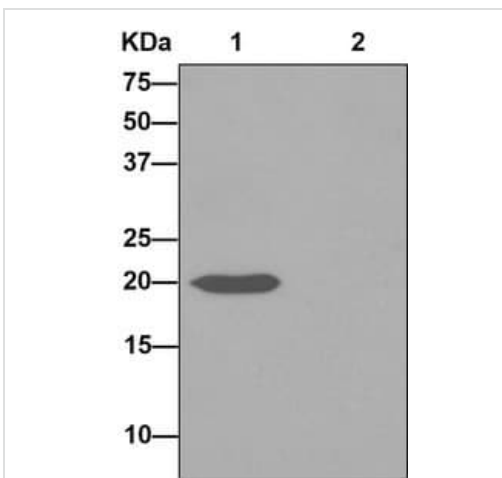
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 19 kDa



Flow Cytometry (Intracellular) - Anti-Y14 antibody [EPR13945(B)] (ab181038)

Intracellular flow cytometric analysis of permeabilized Jurkat cells using ab181038 at a 1/10 dilution (red) or a rabbit IgG (negative) (green).



Immunoprecipitation - Anti-Y14 antibody [EPR13945(B)] (ab181038)

Western blot analysis on immunoprecipitation pellet from (Lane 1) Jurkat cell lysate or (Lane 2) 1XPBS (negative control) using ab181038 at a 1/10 dilution for IP and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Y14 antibody [EPR13945(B)] (ab181038)

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

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