


### Anti-RBP-2 antibody ab157096

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#### Overview

Product name	Anti-RBP-2 antibody
Description	Rabbit polyclonal to RBP-2
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IP
Species reactivity	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rabbit, Horse, Guinea pig, Pig, Chimpanzee, Ferret, Non human primates, Rhesus monkey, Gorilla, Orangutan, Elephant 
Immunogen	Synthetic peptide corresponding to Human RBP-2 aa 344-394. Database link: <a href="#">NP_115553.2</a>
Positive control	293T, HeLa, Jurkat and NIH3T3 whole cell lysates
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate
Purity	pH 7-8 Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab157096 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
WB		1/2000 - 1/10000. Predicted molecular weight: 44 kDa.
IP		Use at 2-10 µg/mg of lysate.

## Target

### Function

A phosphoprotein adapter involved in the XPO1-mediated U snRNA export from the nucleus. Bridge components required for U snRNA export, the cap binding complex (CBC)-bound snRNA on the one hand and the GTPase Ran in its active GTP-bound form together with the export receptor XPO1 on the other. Its phosphorylation in the nucleus is required for U snRNA export complex assembly and export, while its dephosphorylation in the cytoplasm causes export complex disassembly. It is recycled back to the nucleus via the importin alpha/beta heterodimeric import receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Its compartmentalized phosphorylation cycle may also contribute to the directionality of export. Binds strongly to m7G-capped U1 and U5 small nuclear RNAs (snRNAs) in a sequence-unspecific manner and phosphorylation-independent manner (By similarity). Plays also a role in the biogenesis of U3 small nucleolar RNA (snoRNA). Involved in the U3 snoRNA transport from nucleoplasm to Cajal bodies. Binds strongly to m7G-capped U3, U8 and U13 precursor snoRNAs and weakly to trimethylated (TMG)-capped U3, U8 and U13 snoRNAs. Binds also to telomerase RNA.

### Sequence similarities

Belongs to the PHAX family.

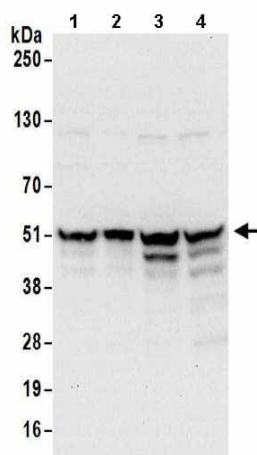
### Post-translational modifications

Phosphorylated in the nucleus. Dephosphorylated in the cytoplasm (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.  
Phosphorylated upon DNA damage, probably by ATM or ATR.

### Cellular localization

Nucleus > nucleoplasm. Nucleus > Cajal body. Cytoplasm. Located in the nucleoplasm and Cajal bodies. Shuttles between the nucleus and the cytoplasm. Shuttles between the nucleoplasm and Cajal bodies.

## Images



Western blot - Anti-RBP-2 antibody (ab157096)

**All lanes :** Anti-RBP-2 antibody (ab157096) at 0.1 µg/ml

**Lane 1 :** 293T whole cell lysate at 50 µg

**Lane 2 :** 293T whole cell lysate at 15 µg

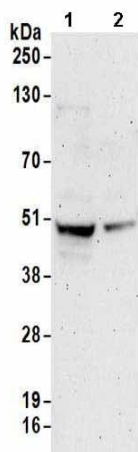
**Lane 3 :** HeLa whole cell lysate at 50 µg

**Lane 4 :** Jurkat whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 44 kDa

**Exposure time:** 10 seconds



Western blot - Anti-RBP-2 antibody (ab157096)

**All lanes :** Anti-RBP-2 antibody (ab157096) at 0.4 µg/ml

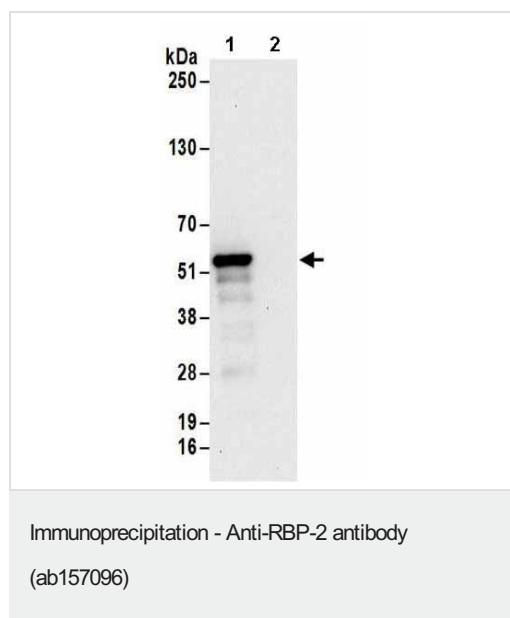
**Lane 1 :** NIH3T3 whole cell lysate at 50 µg

**Lane 2 :** NIH3T3 whole cell lysate at 15 µg

Developed using the ECL technique.

**Predicted band size:** 44 kDa

**Exposure time:** 3 minutes



Immunoprecipitation. ab157096 at 0.1 µg/ml staining by Western blot RBP-2 in 293T whole cell lysate immunoprecipitated using ab157096 at 6 µg/mg lysate (1 mg/IP; 20% of IP loaded/lane).

Lane 2: control IgG.

Predicted band size : 44 kDa.

Exposure time: 10 seconds

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

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