



**Exclusively  
from MBLI**

# RIP-chip

(RNA-Binding Protein Immunoprecipitation for Microarray)

- **Biological approach to find functionally related genes of disease pathways**
- **Analyze post-transcriptionally regulated genes**
- **Establish novel components of cellular pathways**
- **Identify new drug mechanisms and targets**
- **Patented Technology**

**Gene  
Expression Tool**

## Areas of Research:

Disease responses  
Cancer  
Diabetes  
Gene regulation  
Cell Proliferation  
Early response gene products  
Cell cycle components  
Cell wall components  
Mitochondrial proteins (nuclear)  
Spindle pole body components  
Chromatin remodeling enzymes

Plasma membrane biogenesis proteins  
Nucleolar regulatory components  
Cytoskeletal components  
Inhibitory neuronal synapse (GABA)  
Carbohydrate metabolic components  
Ribosomal proteins and biogenesis  
Iron deficiency response  
Cytokine production during T cell activation  
Stem cell development  
Circadian rhythms

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# RIP-chip (RNA-binding protein Immunoprecipitation for microarray)

RIP-chip is a technology used to identify functionally related mRNAs and other RNAs associated with RNA binding proteins (RBP). RBPs regulate and coordinate the translation of multiple mRNAs and the activity of noncoding regulatory RNAs. This technology helps identify and understand functionally related genes in diseased cells and developing systems.

RIP-chip works on a similar principle to the widely used ChIP-chip. It allows immunoprecipitation of ribonucleoproteins (RNPs), with or without crosslinking, from cell extracts using an antibody raised against the RBP of interest. The simple RIP procedure is then followed by microarray (chip) analysis. While microarrays determine the sequences of the RNA targets by hybridization, direct sequencing approaches (RIP-seq) can also be used to reveal RNA targets of RBPs.

RIP-chip or -seq data provide insights into new cellular pathway components leading to potential therapeutic targets and can also provide information regarding the effects of drugs on post-transcriptional processes. This technology can be applied to essentially any cellular system or animal model.

MBL International is providing specialized RIP-chip and RIP-seq antibodies that have been validated to work for this unique technology, as well as a kit with reagents optimized for RNP immunoprecipitation.

## RIP Grade Antibodies

Code No.	Description	Size
RN001P	Anti-EIF4E Polyclonal Antibody	200 µg
RN002P	Anti-EIF4G1 Polyclonal Antibody	200 µg
RN003P	Anti-EIF4G2 Polyclonal Antibody	200 µg
RN004P	Anti-ELAVL1/HuR Polyclonal Antibody	200 µg
RN005P	Anti-ELAVL2/HuB Polyclonal Antibody	200 µg
RN006P	Anti-ELAVL3/HuC Polyclonal Antibody	200 µg
RN007P	Anti-IGF2BP1/IMP1 Polyclonal Antibody	200 µg
RN008P	Anti-IGF2BP2/IMP2 Polyclonal Antibody	200 µg
RN009P	Anti-IGF2BP3/IMP3 Polyclonal Antibody	200 µg
RN010P	Anti-MSI1/Musashi1 Polyclonal Antibody	200 µg
RN011P	Anti-PTBP1 Polyclonal Antibody	200 µg
RN012P	Anti-STAU1 Polyclonal Antibody	200 µg
RN013P	Anti-STAU2 Polyclonal Antibody	200 µg
RN014P	Anti-TIA1 Polyclonal Antibody	200 µg
RN015P	Anti-YBX1 Polyclonal Antibody	200 µg

## RiboCluster Profiler

Code No.	Description	Size
RN1001	RIP-Assay Kit	10 Assays

  

Components	Volume (10 assays)
Lysis Buffer	22 mL x 1 bottle
Washing Buffer	60 mL x 1 bottle
Normal Rabbit IgG	200 µL x 1 vial
High-Salt Solution	6 mL x 1 vial
Solution I	100 µL x 1 vial
Solution II	4 mL x 1 vial
Solution III	3 mL x 1 vial
Solution IV	25 µL

### References:

- 1) de Sousa Abreu R., et al., J Biol Chem. (2009) [Epub ahead of print]
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- 3) Keene, JD., et al., Methods Mol. Biol. (2008) 419:69-91
- 4) Keene, JD., et al., Nat. Protoc. (2006);1(1):302-7
- 5) Townley-Tilson WH., et al., RNA. (2006) 12(10):1853-67

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