

For Research Use Only

# IREB2 Polyclonal antibody

Catalog Number: 23829-1-AP

Featured Product

14 Publications



## Basic Information

**Catalog Number:**

23829-1-AP

**Size:**

200 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG20653

**GenBank Accession Number:**

BC017880

**GeneID (NCBI):**

3658

**UNIPROT ID:**

P48200

**Full Name:**

iron-responsive element binding protein 2

**Calculated MW:**

105 kDa

**Observed MW:**

90-105 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

CoIP, IF, IHC, WB

**Species Specificity:**

human, mouse

**Cited Species:**

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** mouse lung tissue, A549 cells, PC-13 cells

**IHC:** human spleen tissue, human colon cancer tissue

**IF:** A549 cells,

## Background Information

IREB2 is an RNA-binding protein that acts to regulate iron levels in the cells by regulating the translation and stability of mRNAs that affect iron homeostasis under conditions when iron is depleted. When iron levels are low, this protein binds to iron-responsive elements (IRES), stem-loop structures located either in the 5' or 3' UTRs. Binding to the 5' UTR represses translation, while binding to the 3' UTR inhibits mRNA degradation. When iron is found in the cell, this protein is degraded in a F-box and leucine rich repeat protein 5-dependent manner.

## Notable Publications

| Author        | Pubmed ID | Journal                            | Application |
|---------------|-----------|------------------------------------|-------------|
| Yujia Li      | 32947011  | Free Radic Biol Med                | WB,IF,CoIP  |
| Eva Riechert  | 33979607  | Cell Rep                           | WB          |
| Haipeng Cheng | 34175430  | Biochim Biophys Acta Mol Basis Dis | WB          |

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

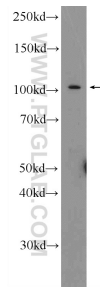
T: 4006900926

E: Proteintech-CN@ptglab.com

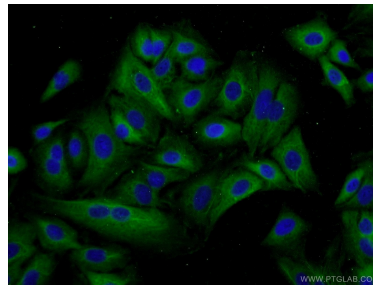
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

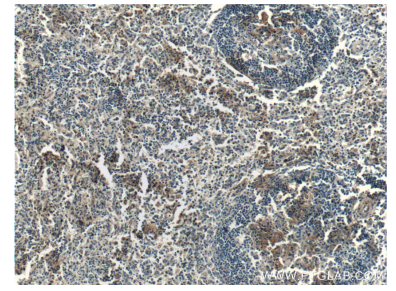
## Selected Validation Data



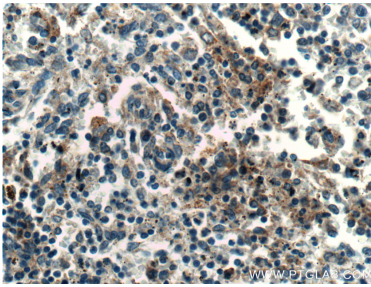
mouse lung tissue were subjected to SDS PAGE followed by western blot with 23829-1-AP (IREB2 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of A549 cells using 23829-1-AP (IREB2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 23829-1-AP (IREB2 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 23829-1-AP (IREB2 antibody) at dilution of 1:200 (under 40x lens).