For Research Use Only

IREB2 Polyclonal antibody

Catalog Number:23829-1-AP Featured Product 16 Publications

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Basic Information

Catalog Number:
23829-1-AP

Size:
150ul , Concentration: 200 μg/ml by Nanodrop and 133 μg/ml by Bradford method using BSA as the standard;

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/ICC 1:20-1:200

Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IHC, IF, CoIP

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

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/ICC : 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

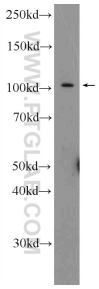
Storage

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

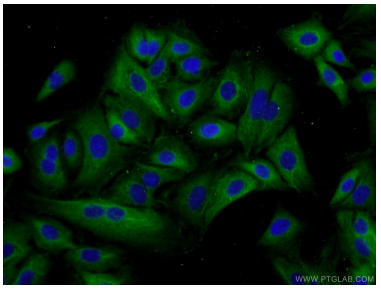
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

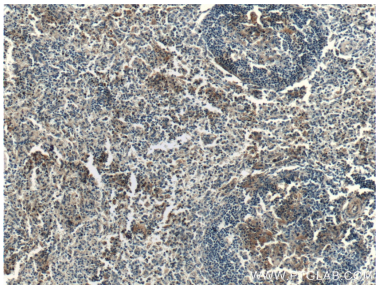
Selected Validation Data



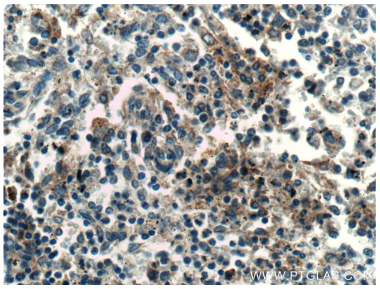
mouse lung tissue were subjected to SDS PAGE followed by western blot with 23829-1-AP (IREB2 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of A549 cells using 23829-1-AP (IREB2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated 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).