

For Research Use Only

CIRBP Polyclonal antibody

Catalog Number: 10209-2-AP

Featured Product

89 Publications



Basic Information

Catalog Number:

10209-2-AP

Concentration:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0280

GenBank Accession Number:

BC000403

GeneID (NCBI):

1153

UNIPROT ID:

Q14011

Full Name:

cold inducible RNA binding protein

Calculated MW:

172 aa, 19 kDa

Observed MW:

19 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:12000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, squirrel

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: Y79 cells, A549 cells, HEK-293 cells, HepG2 cells, PC-12 cells, PC-13 cells, mouse testis tissue, rat testis tissue

IP: HepG2 cells,

IHC: human pancreas cancer tissue, human breast cancer tissue, mouse pancreas tissue

IF/ICC: HEK-293 cells,

FC (Intra): A549 cells,

Background Information

CIRBP, also named as A18HNRNP and CIRP, is a cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival[PMID: 19158277]. CIRBP is also involved in cap-independent translation upon moderate cold-shock. It acts as a translational activator. CIRBP is a suppressive rather stimulatory effect on proliferation[PMID: 19777567]. CIRBP can translocate from nucleus to cytoplasm under stresses such as UV irradiation or heat shock. Suppression of CIRBP increased the apoptotic cell population of neural stem cells at moderate low temperature[PMID: 20735994]. This antibody (Catalog# 10209-2-AP) is a rabbit polyclonal antibody raised against the full-length CIRBP of human origin.

Notable Publications

Author	Pubmed ID	Journal	Application
Yuankang Zou	36211820	Oxid Med Cell Longev	WB,IF
Mingyue Liu	30396738	J Thorac Cardiovasc Surg	WB
Sihan Lv	36170814	Cell Rep	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

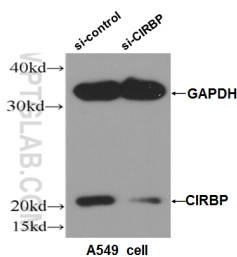
T: 4006900926

E: Proteintech-CN@ptglab.com

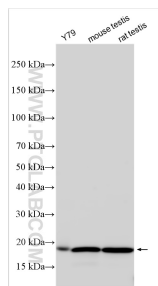
W: ptgcn.com

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

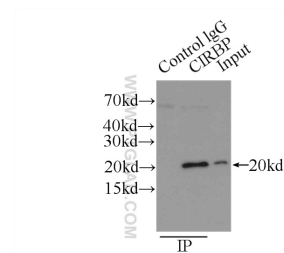
Selected Validation Data



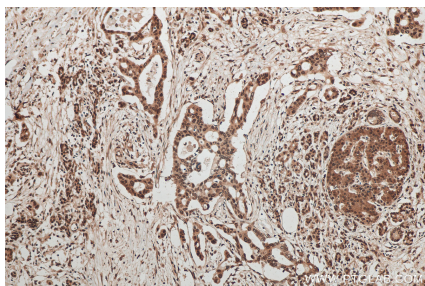
WB result of CIRBP antibody (10209-2-AP, 1:500) with si-control and si-CIRBP transfected A549 cell.



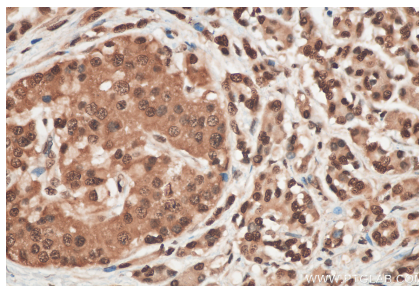
Various lysates were subjected to SDS PAGE followed by western blot with 10209-2-AP (CIRBP antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



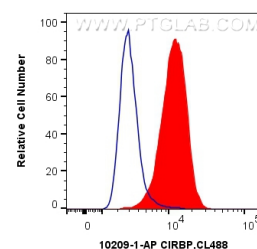
IP result of anti-CIRBP (IP:10209-2-AP, 3ug; Detection:10209-2-AP 1:500) with HepG2 cells lysate 6000ug.



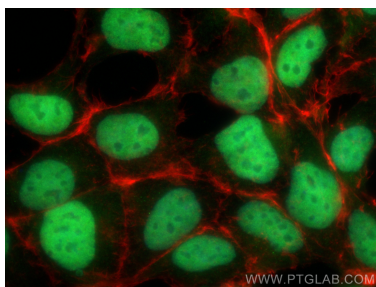
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10209-2-AP (CIRBP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10209-2-AP (CIRBP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ A549 cells were intracellularly stained with 0.4 ug Anti-Human CIRBP (10209-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using CIRBP antibody (10209-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).