

For Research Use Only

CHOP/GADD153 Polyclonal antibody

Catalog Number: 15204-1-AP

Featured Product

652 Publications



Basic Information

Catalog Number:

15204-1-AP

Concentration:

700 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7354

GenBank Accession Number:

BC003637

GeneID (NCBI):

1649

UNIPROT ID:

P35638

Full Name:

DNA-damage-inducible transcript 3

Calculated MW:

19 kDa

Observed MW:

30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:3000

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

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

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, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, rabbit, canine, chicken, zebrafish, bovine, hamster

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: Tunicamycin treated HeLa cells, MCF-7 cells, HeLa cells, K-562 cells, RAW 264.7 cells

IP: C6 cells,

IHC: human colon cancer tissue, human breast cancer tissue, human thyroid cancer tissue, human cervical cancer tissue, mouse brain tissue

IF/ICC: Tunicamycin treated HeLa cells,

FC (Intra): Tunicamycin treated HeLa cells,

Background Information

CHOP, also known as GADD153 or DDIT3, is a highly conserved gene in both the structural and regulatory regions. Imposed by unfolded and misfolded proteins, CHOP is significantly induced by ER stress. CHOP is considered a proapoptotic marker of ER stress dependent cell death. CHOP acts as a dominant-negative inhibitor of the transcription factor C/EBP and LAP. It may play an important role in the malignant transformation of nevus to melanoma. The calculated molecular weight of CHOP is 19 kDa, but the protein migrates on an SDS-PAGE gel with an observed molecular mass of 29 kDa (PMID: 1547942).

Notable Publications

Author	Pubmed ID	Journal	Application
Junxia Hu	31580970	Biomed Pharmacother	WB,IF
Nitchakarn Kaokhum	36182100	Mol Cell Proteomics	WB,IF
Larissa G de Vicente	34592238	Life Sci	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:

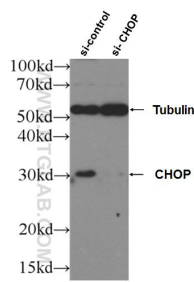
T: 4006900926

E: Proteintech-CN@ptglab.com

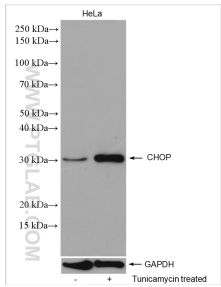
W: ptgcn.com

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

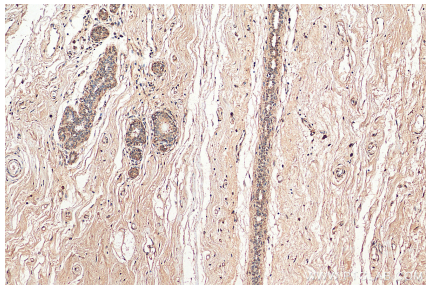
Selected Validation Data



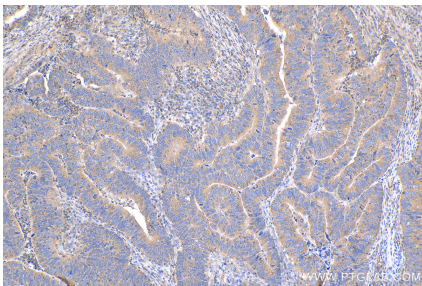
WB result of CHOP antibody (15204-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHOP transfected HeLa cells.



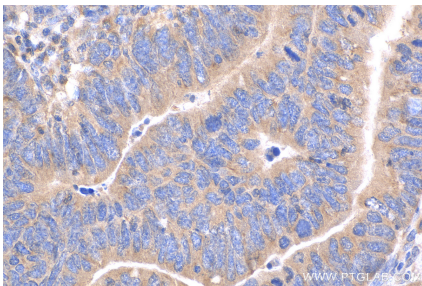
Tunicamycin treated HeLa cells were subjected to SDS PAGE followed by western blot with 15204-1-AP (CHOP; GADD153 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



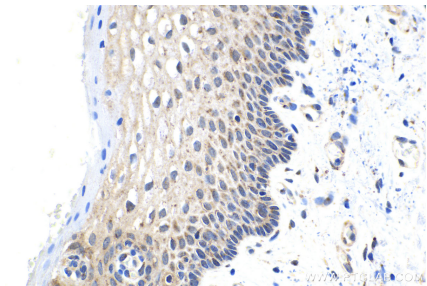
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15204-1-AP (CHOP; GADD153 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



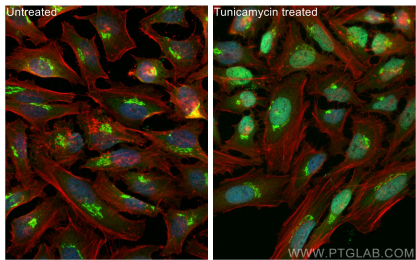
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15204-1-AP (CHOP; GADD153 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



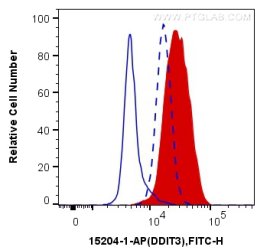
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15204-1-AP (CHOP; GADD153 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



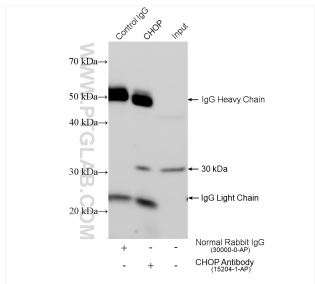
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 15204-1-AP (CHOP; GADD153 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



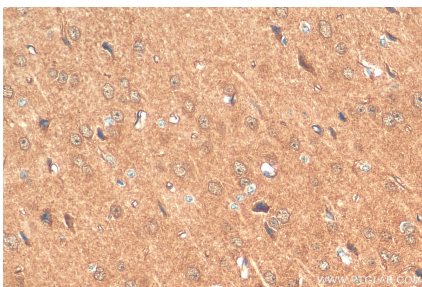
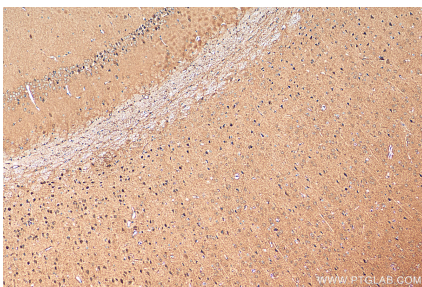
Immunofluorescent analysis of (4% PFA) fixed Tunicamycin treated HeLa cells using CHOP; GADD153 antibody (15204-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1X10⁶ HeLa cells untreated (dashed lines) or treated with Tunicamycin (20 μ g/mL, 4 h; red) were intracellularly stained with 0.4 μ g Anti-Human CHOP; GADD153 (15204-1-AP) and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.4 μ g Control Antibody (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



IP result of anti-CHOP; GADD153 (IP:15204-1-AP, 4ug; Detection:15204-1-AP 1:4000) with C6 cells lysate 1600 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15204-1-AP (CHOP; GADD153 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15204-1-AP (CHOP; GADD153 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).