

# DDIT3/CHOP Rabbit mAb

Catalog No.: A21902 **Recombinant** **2 Publications**

## Basic Information

### Observed MW

27/27kDa

### Calculated MW

19kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC51417

## Background

This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma. Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified.

## Recommended Dilutions

**WB** 1:1000 - 1:4000

**IHC-P** 1:100 - 1:1000

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

1649

### Swiss Prot

P35638

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human DDIT3/CHOP (NP\_004074.2).

### Synonyms

CHOP; CEBPZ; CHOP10; CHOP-10; GADD153; AltDDIT3; C/EBPzeta; DDIT3/CHOP

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

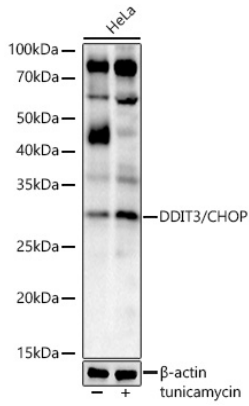
Affinity purification

### Storage

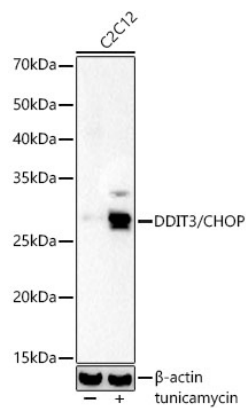
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

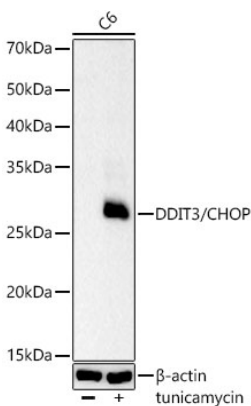
## Validation Data



Western blot analysis of lysates from HeLa cells using DDIT3/CHOP Rabbit mAb (A21902) at 1:1000 dilution incubated overnight at 4°C. HeLa cells were treated by tunicamycin (2 µg/ml) for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 30s.



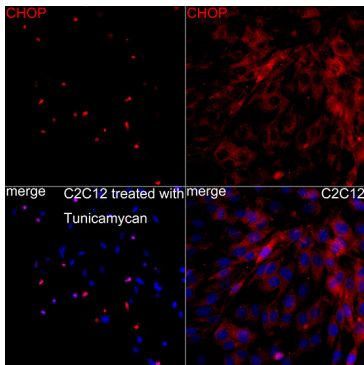
Western blot analysis of lysates from C2C12 cells using DDIT3/CHOP Rabbit mAb (A21902) at 1:900 dilution incubated overnight at 4°C. C2C12 cells were treated by tunicamycin (2 µg/ml) for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20s.



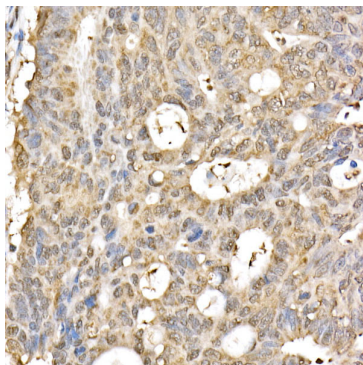
Western blot analysis of lysates from C6 cells using DDIT3/CHOP Rabbit mAb (A21902) at 1:900 dilution incubated overnight at 4°C. C6 cells were treated by tunicamycin (2 µg/ml) for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

## Validation Data

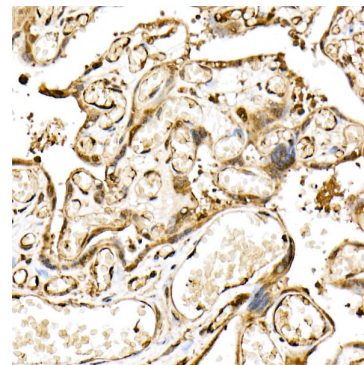
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Immunofluorescence analysis of C2C12 cells (treated with Tunicamycin) and C2C12 cells (untreated) using DDIT3/CHOP Rabbit mAb (A21902) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3 Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using DDIT3/CHOP Rabbit mAb (A21902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using DDIT3/CHOP Rabbit mAb (A21902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.