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[KO Validated] DDIT3/CHOP Rabbit mAb

Catalog No.: A21902 KO Validated Recombinant 4 Publications

Basic Information

Observed MW
27 kDa

Calculated MW
19 kDa

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 - 1:2000
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
Synthetic peptide. This information is considered to be commercially sensitive.

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

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

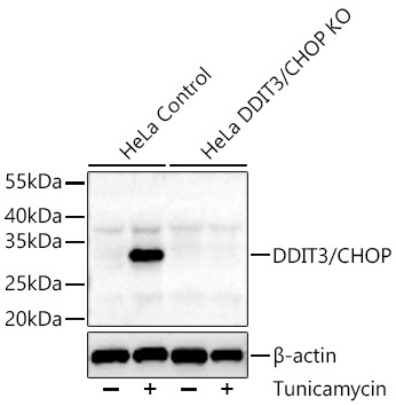
Source
Rabbit

Isotype
IgG

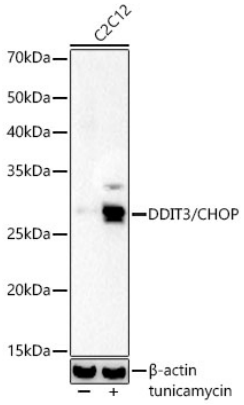
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

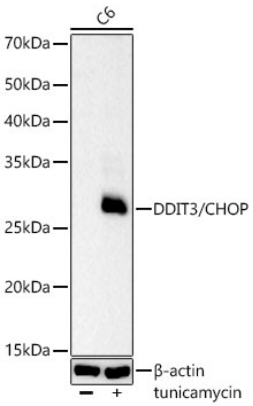
Validation Data



Western blot analysis of lysates from wild type (WT) and DDIT3/CHOP knockout (KO) HeLa cells using DDIT3/CHOP Rabbit mAb (A21902) at 1:1000 dilution incubated overnight at 4℃. HeLa cells were treated with Tunicamycin (20 μg/mL) at 37℃ for 3 hrs.
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: 90s.

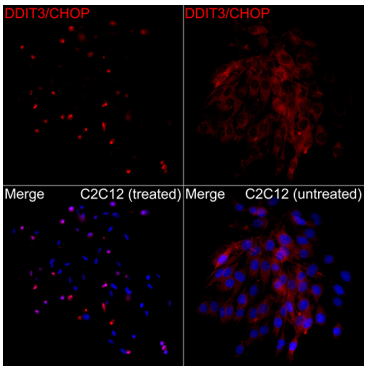


Western blot analysis of lysates from C2C12 cells using DDIT3/CHOP Rabbit mAb (A21902) at 1:900 dilution incubated overnight at 4℃. C2C12 cells were treated with tunicamycin (2 μg/ml) for 8 hours
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: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

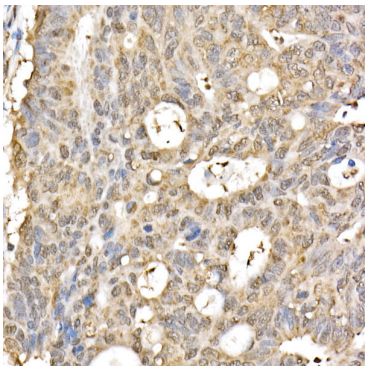


Western blot analysis of lysates from C6 cells using DDIT3/CHOP Rabbit mAb (A21902) at 1:900 dilution incubated overnight at 4℃. C6 cells were treated with tunicamycin (2 μg/ml) for 8 hours
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25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

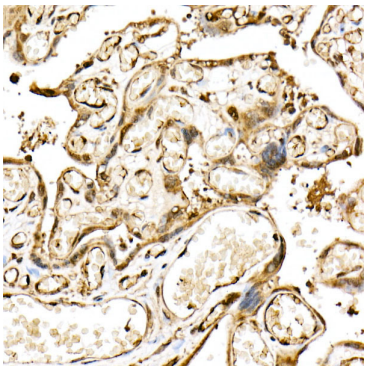
Validation Data



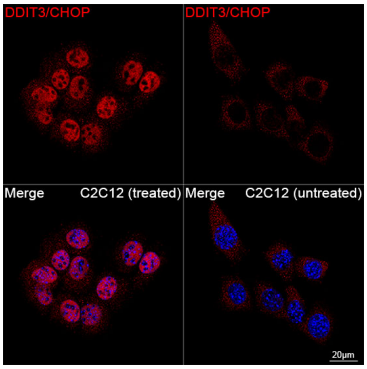
Immunofluorescence analysis of C2C12 cells (treated with Tunicamycan) and C2C12 cells (untreated) using DDIT3/CHOP Rabbit mAb (A21902) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3 Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



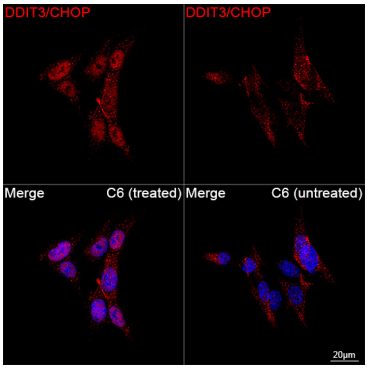
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using DDIT3/CHOP Rabbit mAb (A21902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



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.



Confocal imaging of C2C12 cells (treated with Tunicamycin) and C2C12 cells (untreated) cells using DDIT3/CHOP Rabbit mAb (A21902, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells (treated with Tunicamycin) and C6 cells (untreated) using DDIT3/CHOP Rabbit mAb (A21902, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.