Anti-DDIT3 Antibody

CATALOG NO: A1674-100

ALTERNATIVE NAMES: CHOP; CHOP10; GADD153; DNA damage-inducible transcript 3 protein; DDIT-3; C/EBP zeta; C/EBP-homologous protein; CHOP; C/EBP-homologous protein 10; CHOP-10; CCAAT/enhancer-binding protein homologous protein; Growth arrest and DNA damage-inducible protein GADD153

AMOUNT: 100 µl

IMMUNOGEN: KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DDIT3

HOST/ISOTYPE: Rabbit IgG

CLONALITY: Polyclonal

SPECIFICITY: Recognizes endogenous levels of DDIT3 protein

SPECIES REACTIVITY: Human, Mouse, Rat

PURIFICATION: The antibody was purified by affinity chromatography

FORM: Liquid

FORMULATION: Supplied in 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide

STORAGE CONDITIONS: Shipped at 4°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles

DESCRIPTION: Multifunctional transcription factor in ER stress response. Plays an essential role in the response to a wide variety of cell stresses and induces cell cycle arrest and apoptosis in response to ER stress. Plays a dual role both as an inhibitor of CCAAT/enhancer-binding protein (C/EBP) function and as an activator of other genes. Acts as a dominant-negative regulator of C/EBP-induced transcription: dimerizes with members of the C/EBP family, impairs their association with C/EBP binding sites in the promoter regions, and inhibits the expression of C/EBP regulated genes. ositively regulates the transcription of TRIB3, IL6, IL8, IL23, TNFRSF10B/DR5, PPP1R15A/GADD34, BBC3/PUMA, BCL2L11/BIM and ERO1L. Negatively regulates; expression of BCL2 and MYOD1, ATF4-dependent transcriptional activation of asparagine synthetase (ASNS), CEBPA-dependent transcriptional activation of hepcidin (HAMP) and CEBPB-mediated expression of peroxisome proliferator-activated receptor gamma (PPARG)

APPLICATION: WB; 1:500 – 1:1000; IHC; 1:100 – 1:200, IF/ICC; 1:100-1:500

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user

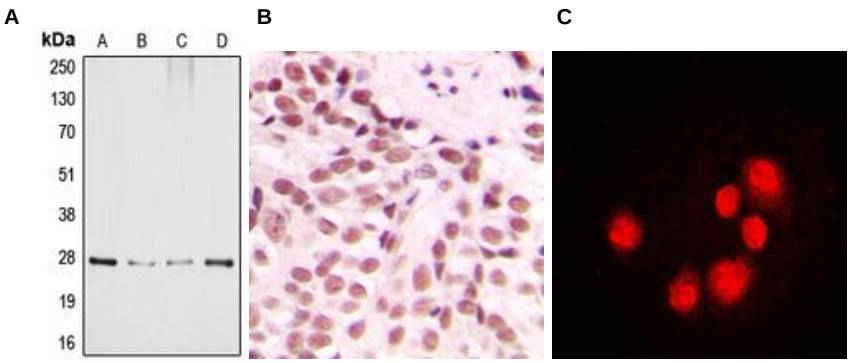

Fig. A. Western blot analysis of DDIT3 expression in HeLa (A); MCF7 (B); SP2/0 (C); PC12 (D) whole cell lysates.

Fig. B. IHC analysis of DDIT3 staining in human breast cancer

Fig. C. IF/ICC analysis of DDITS in MCF7 cells

RELATED PRODUCTS:

- Anti-Integrin beta-1 Rabbit Monoclonal Antibody **(Cat. No. A1598)**
- SCF Antibody **(Cat. No. 6646)**
- SCF Antibody **(Cat. No. 5328)**
- SCF Antibody **(Cat. No. 5327)**
- OCT4 (OCT3) Antibody **(Cat. No. 6765)**
- Oct-4 Antibody **(Cat. No. 3576)**
- STAT3 Antibody **(Cat. No. 3470R)**
- Anti-CD168 Antibody **(Cat. No. A1672)**
- Anti-TF2L1 Antibody **(Cat. No. A1673)**

FOR RESEARCH USE ONLY! Not to be used on humans.