

DDIT3

Reactivity: Mouse

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 19kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human DDIT3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

DDIT3; CEBPZ; CHOP; CHOP10; GADD153; MGC4154;

Catalog #: A11073

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 1649

Isotype: IgG

Swiss Prot: P35638

Purity: Affinity purification

For research use only.

Background:

DDIT3 was identified as a C/EBP-homologous protein that inhibits C/EBP and LAP in a dominant-negative manner (1). DDIT3 expression is induced by certain cellular stresses including starvation and the induced DDIT3 suppresses cell cycle progression from G1 to S phase (2). Later it was shown that, during ER stress, the level of DDIT3 expression is elevated and DDIT3 functions to mediate programmed cell death (3). Studies also found that DDIT3 mediates the activation of GADD34 and Ero1-L expression during ER stress. GADD34 in turn dephosphorylates phospho-Ser51 of eIF2 thereby stimulating protein synthesis. Ero1-L promotes oxidative stress inside the endoplasmic reticulum (ER) (4). The role of DDIT3 in the programmed cell death of ER-stressed cells is correlated with its role promoting protein synthesis and oxidative stress inside the ER (4).

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