

Product datasheet for **TA326779S**

DDIT3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50 - 1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human CHOP
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DNA damage inducible transcript 3
Database Link:	NP_004074 Entrez Gene 13198 Mouse Entrez Gene 29467 Rat Entrez Gene 1649 Human P35638



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Background:

CHOP was identified as a C/EBP-homologous protein that inhibits C/EBP and LAP in a dominant-negative manner. CHOP expression is induced by certain cellular stresses including starvation and the induced CHOP suppresses cell cycle progression from G1 to S phase. Later it was shown that, during ER stress, the level of CHOP expression is elevated and CHOP functions to mediate programmed cell death. Studies also found that CHOP mediates the activation of GADD34 and Ero1-La expression during ER stress. GADD34 in turn dephosphorylates phospho-Ser51 of eIF2a thereby stimulating protein synthesis. Ero1-La promotes oxidative stress inside the endoplasmic reticulum (ER). The role of CHOP in the programmed cell death of ER-stressed cells is correlated with its role promoting protein synthesis and oxidative stress inside the ER.

Synonyms:

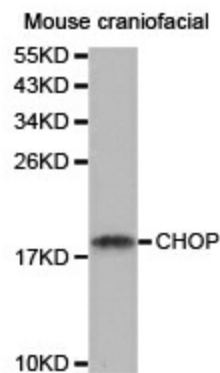
CEBPZ; CHOP; CHOP-10; CHOP10; GADD153

Protein Families:

Druggable Genome, Transcription Factors

Protein Pathways:

MAPK signaling pathway

Product images:

Western blot analysis of extracts from mouse craniofacial tissue, using CHOP antibody.