

Rabbit CHOP Antibody | anti-CHOP antibody

CHOP Polyclonal Antibody

CATALOG # AAA266911	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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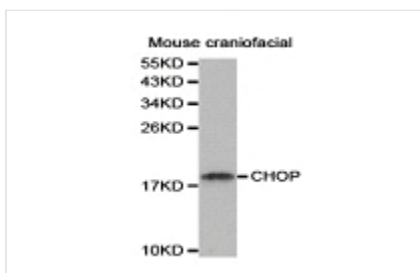
PRODUCT SYNONYMS

CHOP; CHOP Polyclonal Antibody; DDIT3; CEBPZ; CHOP10; GADD153; MGC4154; anti-CHOP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Sequence Length	192
Applicable Applications for anti-CHOP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human CHOP.
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze/thaw cycles.

IMAGES


WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-CHOP antibody	CHOP was identified as a C/EBP-homologous protein that inhibits C/EBP and LAP in a dominant-negative manner (1). CHOP expression is induced by certain cellular stresses including starvation and the induced CHOP suppresses cell cycle progression from G1 to S phase (2). Later it was shown that, during ER stress, the level of CHOP expression is elevated and CHOP functions to mediate programmed cell death (3). Studies also found that CHOP mediates the activation of GADD34 and Ero1-Lalpha expression during ER stress. GADD34 in turn dephosphorylates phospho-Ser51 of eIF2alpha thereby stimulating protein synthesis. Ero1-Lalpha promotes oxidative stress inside the endoplasmic reticulum (ER) (4). 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 (4).
Product Categories/Family for anti-CHOP antibody	Autophagy antibody ; Cancer ; Cardiovascular ; Cell Biology ; Epigenetics & Nuclear Signaling ; Developmental Biologys ; Immunology ; Drug Discovery Products ; Metabolism ; Neuroscience ; Signal Transduction ; Stem Cells

References	1. Ron, D. and Habener, J.F. (1992) Genes Dev 6, 439-53. 2. Barone, M.V. et al. (1994) Genes Dev 8, 453-64. 3. Zinszner, H. et al. (1998) Genes Dev 12, 982-95. 4. Marciniak, S.J. et al. (2004) Genes Dev 18, 3066-77.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	304282225
NCBI GeneID	1649
NCBI Accession #	NP_001181982.1
NCBI GenBank Nucleotide #	NM_001195053.1
UniProt Accession #	P35638; F8VS99
Molecular Weight	19kDa
NCBI Official Full Name	DNA damage-inducible transcript 3 protein isoform 1
NCBI Official Synonym Full Names	DNA damage inducible transcript 3
NCBI Official Symbol	DDIT3
NCBI Official Synonym Symbols	CHOP; CEBPZ; CHOP10; CHOP-10; GADD153; C/EBPzeta
NCBI Protein Information	DNA damage-inducible transcript 3 protein
UniProt Protein Name	DNA damage-inducible transcript 3 protein
UniProt Gene Name	DDIT3
UniProt Synonym Gene Names	CHOP; CHOP10; GADD153; DDIT-3; CHOP; CHOP-10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.