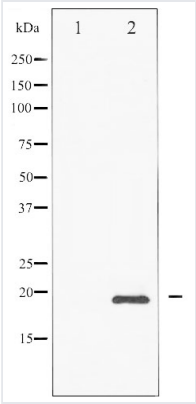
CHOP Antibody

PRODUCT OVERVIEW

Product Name	CHOP, Antibody
Full Product Name	Phospho-CHOP (Ser30) Antibody
Product Gene Name	anti-CHOP antibody
Product Synonym Names	C/EBP-homologous protein; DDIT3; DNA-damage inducible transcript 3; GADD153; Growth arrest and DNA-damage-inducible protein GADD153
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Phospho-CHOP (Ser30) Antibody detects endogenous levels of CHOP only when phosphorylated at Serine 30
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	19kDa
OMIM	126337
3D Structure	ModBase 3D Structure for P35638
Immunogen	A synthesized peptide derived from human CHOP around the phosphorylation site of Serine 30
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CHOP antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-CHOP antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500
Related Product Information for anti-CHOP antibody	CHOP a transcriptional-regulatory protein of the bZIP family. Inhibits the DNA-binding activity of C/EBP and LAP by forming heterodimers that cannot bind DNA. May play an important role in melanoma progression. CK2-mediated phosphorylation inhibits its transcriptional activity.
Other Notes	Small volumes of anti-CHOP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CHOP purchase	MBS8511460 is an antibody targeting CHOP. Also known as Phospho-CHOP (Ser30) Antibody. Reactive in Human, Mouse.



Western Blot (WB) of anti-CHOP antibody
Western blot analysis of CHOP phosphorylation expression in PMA treated Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHOP. It may not necessarily be applicable to this product.

NCBI GI #	304282225
NCBI GeneID	1649
NCBI Accession #	NP_001181982.1
UniProt Primary Accession #	P35638
UniProt Secondary Accession #	F8VS99
UniProt Related Accession #	P35638
GenBank Nucleotide #	NM_001195053.1
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
UniProt Protein Name	DNA damage-inducible transcript 3 protein
UniProt Synonym Protein Names	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
Protein Family	DNA damage-inducible transcript 3 protein
UniProt Gene Name	DDIT3
UniProt Synonym Gene Names	CHOP; CHOP10; GADD153; DDIT-3; CHOP; CHOP-10
NCBI Protein Information	DNA damage-inducible transcript 3 protein
NCBI Summary for CHOP	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. [provided by RefSeq, Aug 2010]

UniProt Comments for CHOP	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. Positively 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). Inhibits the canonical Wnt signaling pathway by binding to TCF7L2/TCF4, impairing its DNA-binding properties and repressing its transcriptional activity. Plays a regulatory role in the inflammatory response through the induction of caspase-11 (CASP4/CASP11) which induces the activation of caspase-1 (CASP1) and both these caspases increase the activation of pro-IL1B to mature IL1B which is involved in the inflammatory response.
Research Articles on CHOP	**1.** GRP78 silencing promoted lung epithelial cell apoptosis during hyperoxia, via regulation of the CHOP pathway.
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