

Rabbit CHOP Polyclonal Antibody | anti-CHOP antibody

CHOP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325834	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CHOP; Polyclonal Antibody; CHOP Antibody; C/EBP homologous protein; C/EBP Homology Protein; C/EBP zeta; C/EBP-homologous protein 10; C/EBP-homologous protein; CCAAT/enhancer binding protein homologous protein; CEBPZ; CHOP 10; CHOP-10; CHOP10; DDIT 3; DDIT-3; Ddit3; DDIT3_HUMAN; DNA Damage Inducible Transcript 3; DNA damage-inducible transcript 3 protein; GADD 153; GADD153; Growth Arrest and DNA Damage Inducible Protein 153; Growth arrest and DNA damage inducible protein GADD153; Growth arrest and DNA damage-inducible protein GADD153; MGC4154; anti-CHOP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CHOP antibody detects endogenous levels of total CHOP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	192
Applicable Applications for anti-CHOP antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CHOP, corresponding to a region within N-terminal amino acids.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA325834 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Red), diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA325834 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from mouse craniofacial tissue, using CHOP antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CHOP antibody	Description: 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). Similarity: The N-terminal region is necessary for its proteasomal degradation, transcriptional activity and interaction with EP300/P300. Belongs to the bZIP family.
References	Zhao H, Liu Q, Wang S, Dai F, Cheng X, Cheng X, Chen W, Zhang M, Chen D; Journal: Cancer Med. In vitro additive antitumor effects of dimethoxycurcumin and 5-fluorouracil in colon cancer cells. Liu Y, Shen HJ, Wang XQ, Liu HQ, Zheng LY, Luo JD; Journal: J Cell Biochem. EndophilinA2 protects against angiotensin II-induced cardiac hypertrophy by inhibiting angiotensin II type 1 receptor trafficking in neonatal rat cardiomyocytes. Hao W, Yang R, Yang Y, Jin S, Li Y, Yuan F, Guo Q, Xiao L, Wang X, Wang F, Wu Y, Teng X; Journal: Life Sci. Stellate ganglion block ameliorates vascular calcification by inhibiting endoplasmic reticulum stress. Chen X, Li L, Liu X, Luo R, Liao G, Li L, Liu J, Cheng J, Lu Y, Chen Y; Journal: Life Sci. Oleic acid protects saturated fatty acid mediated lipotoxicity in hepatocytes and rat of non-alcoholic steatohepatitis. Lu HY, Chen XQ, Tang W, Wang QX, Zhang J; Journal: Mol Med Rep. GRP78 silencing enhances hyperoxia-induced alveolar epithelial cell apoptosis via CHOP pathway.

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; P0DPQ6
Molecular Weight	19 kDa
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; AltDDIT3; 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.

