

Rabbit anti-Human, Mouse CHOP Polyclonal Antibody | anti-CHOP antibody

CHOP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322296	Rabbit	Human, Mouse	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

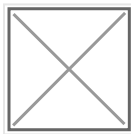
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
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	Liquid 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
Subcellular Location	Nucleus.
Tissue Specificity	By oxidative stress, amino-acid deprivation, hypoxia and ER stress. During ER stress, induced by a EIF2AK3/ATF4 pathway and/or ERN1/ATF6 pathway. Expression is suppressed by TLR-TRIF signaling pathway during prolonged ER stress.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (89%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



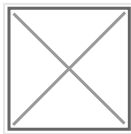
IHC (Immunohistochemistry)
AAA322296 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA322296 staining PC-3 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 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IF (Immunofluorescence)
AAA322296 staining Hela 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 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



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

ADDITIONAL INFORMATION

Related Product Information for anti-CHOP antibody	Description: 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. Function: 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. Subunit Structure: Heterodimer. Interacts with TCF7L2/TCF4, EP300/P300, HDAC1, HDAC5 and HDAC6. Interacts with TRIB3 which blocks its association with EP300/P300. Interacts with FOXO3, CEBPB and ATF4. Post-translational Modifications: Ubiquitinated, leading to its degradation by the proteasome. Phosphorylation at serine residues by MAPK14 enhances its transcriptional activation activity while phosphorylation at serine residues by CK2 inhibits its transcriptional activation activity. Similarity: The N-terminal region is necessary for its proteasomal degradation, transcriptional activity and interaction with EP300/P300. Belongs to the bZIP family.
References	Liu Z, Yu T, Yang H, Tian X, Feng L; Journal: Life Sci. WITHDRAWN: Decreased level of endogenous ghrelin is involved in the progression of lung injury induced by oleic acid. Yang R, Teng X, Li H, Xue HM, Guo Q, Xiao L, Wu YM; Journal: Oxid Med Cell Longev. Hydrogen Sulfide Improves Vascular Calcification in Rats by Inhibiting Endoplasmic Reticulum Stress. Yang X, He J, Li B, Zhang J, He K, Duan X, Huang R, Xiang G; Journal: J Nanosci Nanotechnol. SWNHs (Single-Wall Carbon Nanohorns) Supervises Endoplasmic Reticulum (ER) Stress in Hepatocellular Carcinoma. Feng J, Li S, Chen H; Journal: Exp Biol Med (Maywood). Tanshinone IIA ameliorates apoptosis of cardiomyocytes induced by endoplasmic reticulum stress.

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	Observed: 19 kDa Predicted: 20 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/chop-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322296>