

## Mouse CHOP Monoclonal Antibody | anti-CHOP antibody

CHOP mouse Monoclonal Antibody (2B1)

|                               |                      |                                        |                                                                               |
|-------------------------------|----------------------|----------------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA293801</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------|----------------------------------------|-------------------------------------------------------------------------------|

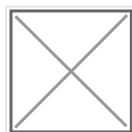
### PRODUCT SYNONYMS

CHOP; Monoclonal Antibody; CHOP mouse Monoclonal Antibody (2B1); DDIT3; anti-CHOP antibody

### PRODUCT SPECIFICATIONS

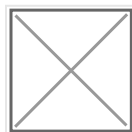
|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                 |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                     |
| Clonality                                      | Monoclonal                                                                                                                                            |
| Clone Number                                   | 2B1                                                                                                                                                   |
| Applicable Applications for anti-CHOP antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                |
| Cellular Location                              | Cytoplasm. Nucleus Note=Present in the cytoplasm under non-stressed conditions and ER stress leads to its nuclear accumulation                        |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES



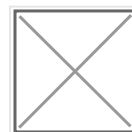
#### Application Data

Dilution: WB 1:1000-2000, IHC 1:100-200 IF 1:200



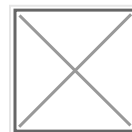
#### Application Data

Dilution: WB 1:1000-2000, IHC 1:100-200 IF 1:200



#### Application Data

Dilution: WB 1:1000-2000, IHC 1:100-200 IF 1:200



#### WB (Western Blot)

Dilution: WB 1:1000-2000, IHC 1:100-200 IF 1:200

## ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CHOP antibody | 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. |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 304282234                                                                                                                                                                                             |
| NCBI GeneID                      | 1649                                                                                                                                                                                                  |
| NCBI Accession #                 | NP_001181986.1                                                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_001195057.1                                                                                                                                                                                        |
| UniProt Accession #              | P35638                                                                                                                                                                                                |
| Molecular Weight                 | 19,175 Da                                                                                                                                                                                             |
| NCBI Official Full Name          | DNA damage-inducible transcript 3 protein isoform 2                                                                                                                                                   |
| NCBI Official Synonym Full Names | DNA-damage-inducible transcript 3                                                                                                                                                                     |
| NCBI Official Symbol             | DDIT3                                                                                                                                                                                                 |
| NCBI Official Synonym Symbols    | CHOP; CEBPZ; CHOP10; CHOP-10; GADD153                                                                                                                                                                 |
| NCBI Protein Information         | DNA damage-inducible transcript 3 protein; DDIT-3; C/EBP zeta; c/EBP-homologous protein 10; CCAAT/enhancer-binding protein homologous protein; growth arrest and DNA damage-inducible protein GADD153 |
| UniProt Protein Name             | DNA damage-inducible transcript 3 protein                                                                                                                                                             |
| UniProt Gene Name                | <b>DDIT3</b>                                                                                                                                                                                          |
| UniProt Synonym Gene Names       | CHOP; CHOP10; GADD153; DDIT-3; CHOP; CHOP-10                                                                                                                                                          |
| UniProt Entry Name               | DDIT3_HUMAN                                                                                                                                                                                           |

**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/chop-antibody-clone-2b1-immunofluorescence-immunohistochemistry-western-blot-elisa/293801>