

DDIT3 Rabbit mAb
Catalog # AP74991**Specification****DDIT3 Rabbit mAb - Product Information**

Application	WB, IHC
Primary Accession	P35638
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	19175

DDIT3 Rabbit mAb - Additional Information**Gene ID** 1649**Other Names**
DDIT3**Dilution**
WB~~1/500-1/1000
IHC~~1/50-1/100**Format**
Liquid**DDIT3 Rabbit mAb - Protein Information****Name** DDIT3**Synonyms** CHOP, CHOP10, GADD153**Function**

Multifunctional transcription factor in endoplasmic reticulum (ER) stress response (PubMed: [15322075](http://www.uniprot.org/citations/15322075), PubMed: [15775988](http://www.uniprot.org/citations/15775988), PubMed: [19672300](http://www.uniprot.org/citations/19672300)). 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 (PubMed: [15322075](http://www.uniprot.org/citations/15322075), PubMed: [15775988](http://www.uniprot.org/citations/15775988)). Plays a dual role both as an inhibitor of CCAAT/enhancer-binding protein (C/EBP) function and as an activator of other genes (By similarity). 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 (By similarity). Positively regulates the transcription of TRIB3, IL6, IL8, IL23, TNFRSF10B/DR5, PPP1R15A/GADD34, BBC3/PUMA, BCL2L11/BIM and ERO1L (PubMed: [15775988](http://www.uniprot.org/citations/15775988), PubMed: [17709599](http://www.uniprot.org/citations/17709599)

target="_blank">17709599, PubMed:20876114, PubMed:22761832). 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) (PubMed:18940792, PubMed:19672300, PubMed:20829347). Together with ATF4, mediates ER- mediated cell death by promoting expression of genes involved in cellular amino acid metabolic processes, mRNA translation and the unfolded protein response (UPR) in response to ER stress (By similarity). Inhibits the canonical Wnt signaling pathway by binding to TCF7L2/TCF4, impairing its DNA-binding properties and repressing its transcriptional activity (PubMed:16434966). 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 (By similarity). Acts as a major regulator of postnatal neovascularization through regulation of endothelial nitric oxide synthase (NOS3)-related signaling (By similarity).

Cellular Location

Cytoplasm. Nucleus Note=Present in the cytoplasm under non-stressed conditions and ER stress leads to its nuclear accumulation

DDIT3 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DDIT3 Rabbit mAb - Images



