




## Rabbit Anti-DDIT3 antibody

SL1361R

<b>Product Name:</b>	DDIT3
<b>Chinese Name:</b>	GADD153抗体
<b>Alias:</b>	GADD153; CHOP; Growth arrest and DNA damage-inducible 153; C/EBP homologous protein; C/EBP Homology Protein; CEBPZ; CHOP10; DDIT 3; DNA Damage Inducible Transcript 3; GADD 153; Growth Arrest and DNA Damage Inducible Protein 153; Growth arrest and DNA damage inducible protein GADD153; MGC4154; DDIT3 HUMAN.
<b>文献引用</b> 	<p><b>Specific References(2)</b>SL1361R has been referenced in 2 publications.</p> <p><b>[IF=3.73]</b>Ding, Ye, et al. "Study of Histopathological and Molecular Changes of Rat Kidney under Simulated Weightlessness and Resistance Training Protective Effect." PloS one 6.5 (2011): e20008.<b>WB;Rat.</b>  <a href="#">PubMed:21625440</a></p> <p><b>[IF=3.37]</b>Du, Shaoqing, et al. "SelK is a novel ER stress-regulated protein and protects HepG2 cells from ER stress agent-induced apoptosis." Archives of biochemistry and biophysics 502.2 (2010): 137-143.<b>WB;Human.</b>  <a href="#">PubMed:20692228</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	19kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid

<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human GADD153:75-168/168
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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].</p> <p><b>Function:</b> 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.</p> <p><b>Subunit:</b> 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.</p> <p><b>Subcellular Location:</b></p>

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

**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.

**DISEASE:**

Note=A chromosomal aberration involving DDIT3 is found in a patient with malignant myxoid liposarcoma. Translocation t(12;16)(q13;p11) with FUS.

**Similarity:**

Belongs to the bZIP family.

Contains 1 bZIP (basic-leucine zipper) domain.

**SWISS:**

P35638

**Gene ID:**

1649

**Database links:**

[Entrez Gene: 1649](#)Human

[Entrez Gene: 13198](#)Mouse

[Entrez Gene: 29467](#)Rat

[Omim: 126337](#)Human

[SwissProt: P35638](#)Human

[SwissProt: P35639](#)Mouse

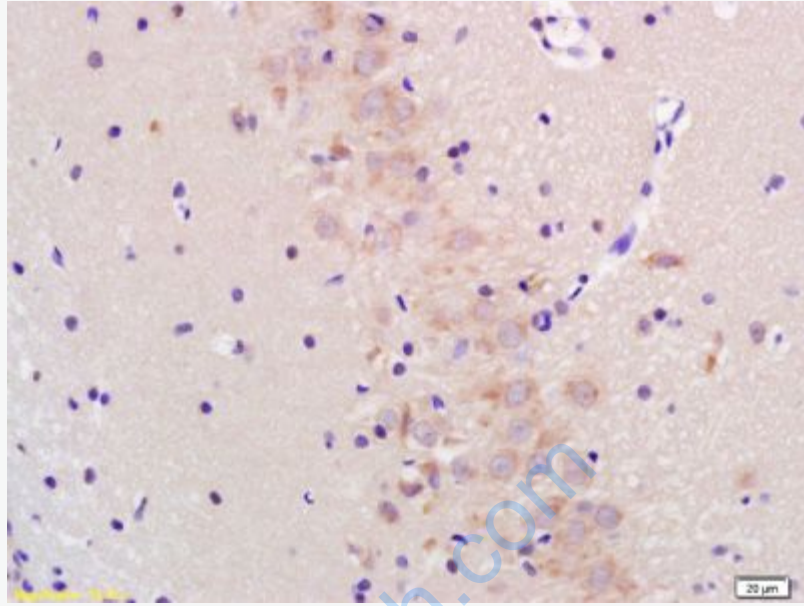
[SwissProt: Q62857](#)Rat

[Unigene: 505777](#)Human

**Important Note:**

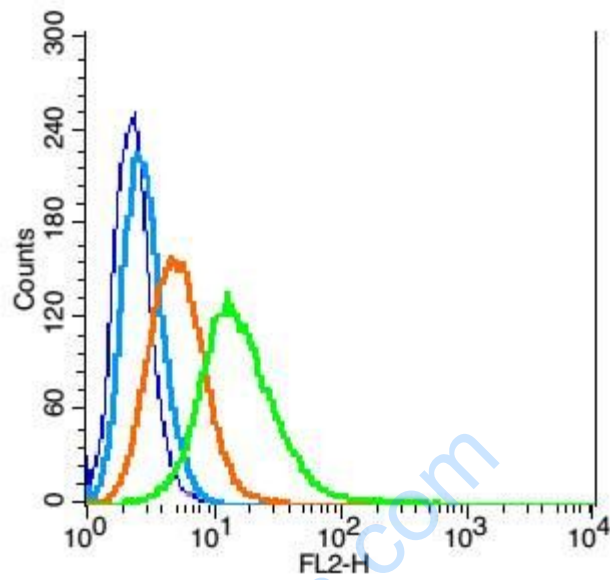
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GADD153蛋白与Apoptosis和死亡密切相关,在某种程度上决定了细胞周期的进程。



**Picture:**

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-GADD153/CHOP/DDIT3 Polyclonal Antibody, Unconjugated(SL1361R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: Hela(blue).

Primary Antibody: Rabbit Anti- DDIT3 antibody(SL1361R), Dilution: 1 $\mu$ g in 100  $\mu$ L  
1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions );

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X  
PBS containing 0.5% BSA.

#### Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice . Antibody (SL1361R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of bs-1361R at 1/200 dilution for 30 min on ice.

	Acquisition of 20,000 events was performed.
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