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Rabbit Anti-GADD153 antibody

SL8875R

Product Name:	GADD153
Chinese Name:	GADD153抗体
Alias:	Growth arrest and DNA damage-inducible 153; C/EBP homologous protein; C/EBP Homology Protein; CEBPZ; CHOP; CHOP10; DDIT 3; DDIT3; 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	19kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GADD153/CHOP/DDIT3:65-150/169
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	GADD153 (Growth arrest and DNA damage-inducible 153; DNA-damage inducible transcript 3;) is a small nuclear protein that is capable of dimerizing with transcription

factors C/EBP alpha and beta. Once dimerized, this complex inhibits the normal binding and function of C/EBP to classical binding sites. Inversely, the C/EBP GADD153 dimer gains binding activity to other non classical C/EBP stress related targets. Under normal cellular conditions this protein is not expressed in detectable levels, but is highly unregulated during times of cellular/ER stress. Examples of GADD153 inducing stress include: treatment with tunicamycin, nutrient starvation and reducing agents that interfere with the calcium flux across the ER membrane.

Function:
Inhibits the DNA-binding activity of C/EBP and LAP by forming heterodimers that cannot bind DNA.

Subunit:
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.

Subcellular Location:
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 (By similarity).

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 domain.

SWISS:
P35638

Gene ID:
1649

Database links:

Entrez Gene: 1649Human

Entrez Gene: 13198Mouse

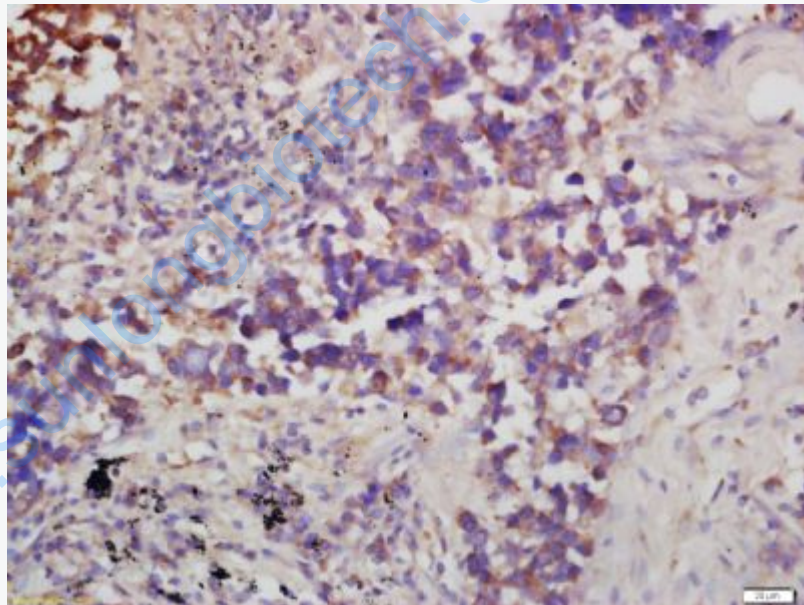|	
	Entrez Gene: 29467Rat Entrez Gene: 398615Xenopus laevis Omim: 126337Human SwissProt: P35638Human SwissProt: P35639Mouse SwissProt: Q62857Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Tissue/cell: human lung carcinoma; 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℃ for 20 min; Incubation: Anti-GADD153 Polyclonal Antibody, Unconjugated(SL8875R) 1:200,

	overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining