



Rabbit Anti-GADD45A antibody

SL1360R

Product Name:	GADD45A
Chinese Name:	生长抑制DNA损伤基因45抗体
Alias:	Growth Arrest And DNA Damage Inducible Alpha; DNA Damage-Inducible Transcript 1 Protein; DDIT-1; GADD45; DDIT1; Growth Arrest And DNA Damage-Inducible Protein GADD45 Alpha; Growth Arrest And DNA-Damage-Inducible 45 Alpha; Growth Arrest And DNA-Damage-Inducible, Alpha; DNA Damage-Inducible Transcript-1; GA45A_HUMAN
文献引用 PubMed :	<p>Specific References(1)SL1360R has been referenced in 1 publications.</p> <p>[IF=4.20] Yuan, Qing, et al. "Docetaxel-loaded solid lipid nanoparticles suppress breast cancer cells growth with reduced myelosuppression toxicity." International Journal of Nanomedicine 9 (2014): 4829. WB;Mouse.</p> <p style="text-align: right;">PubMed:25378924</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/TestICC=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:	18kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GADD45:65-165/165
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:	<p>This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The DNA damage-induced transcription of this gene is mediated by both p53 dependent and independent mechanisms.</p> <p>Function: In T-cells, functions as a regulator of p38 MAPKs by inhibiting p38 phosphorylation and activity. Might affect PCNA interaction with some CDK (cell division protein kinase) complexes; stimulates DNA excision repair in vitro and inhibits entry of cells into S phase.</p> <p>Subunit: Interacts with MAPK14. Predominantly monomeric but also forms dimers and other oligomers as concentration increases. Interacts with GADD45GIP1. Interacts weakly with PCNA. Interacts with AURKA, likely to compete with dimerization.</p> <p>Subcellular Location: Nucleus.</p> <p>Similarity: Belongs to the GADD45 family.</p> <p>SWISS: P24522</p> <p>Gene ID: 1647</p> <p>Database links:</p> <p>Entrez Gene: 1647Human</p> <p>Entrez Gene: 13197Mouse</p> <p>Entrez Gene: 25112Rat</p> <p>Omim: 126335Human</p>

[SwissProt: P24522](#)Human

[SwissProt: P48316](#)Mouse

[SwissProt: P48317](#)Rat

[Unigene: 80409](#)Human

[Unigene: 72235](#)Mouse

[Unigene: 10250](#)Rat

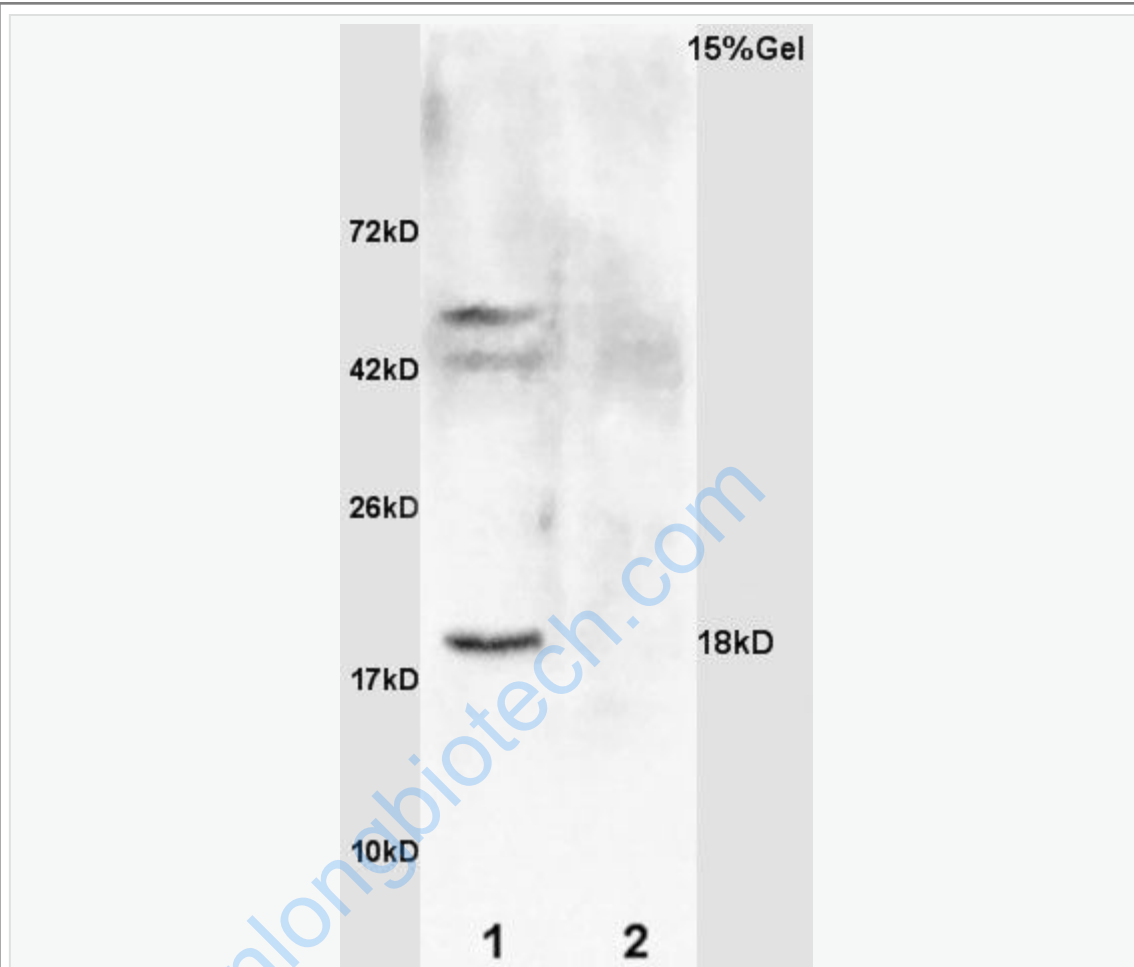
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

GADD45 α 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。

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Picture:



Sample:

Lane1: Brain (Rat) Lysate at 30 ug

Lane2:Kidney (Rat) Lysate at 30 ug

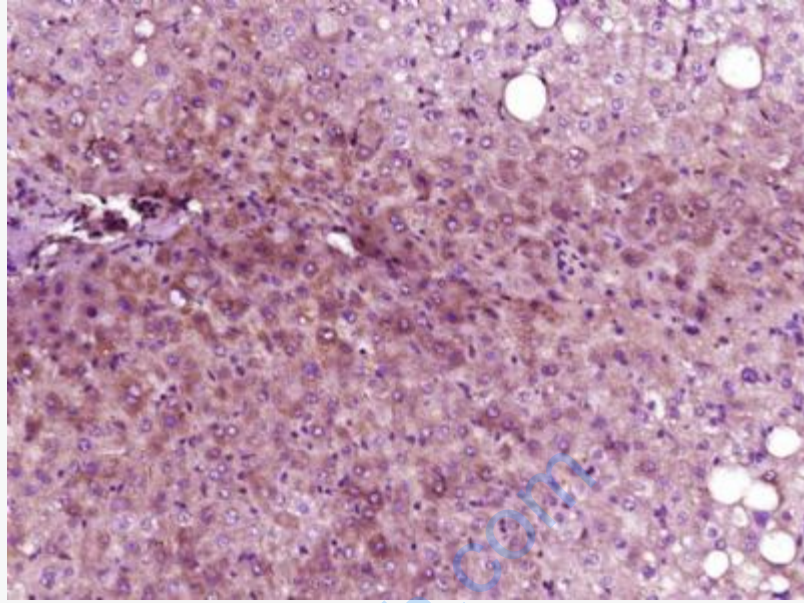
Primary: Anti-GADD45 (SL1360R) at 1:200 dilution;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(SL1360R) at 1: 3000 dilution;

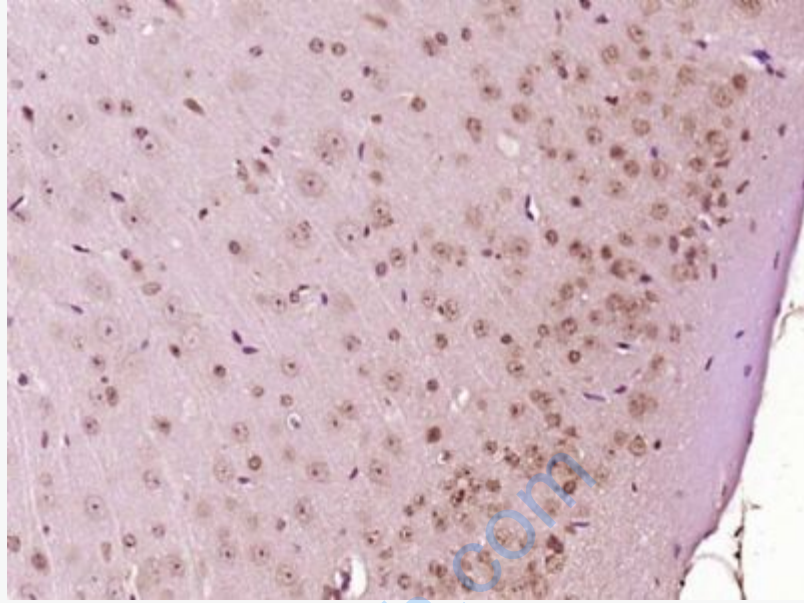
Predicted band size : 18kD

Observed band size : 18kD

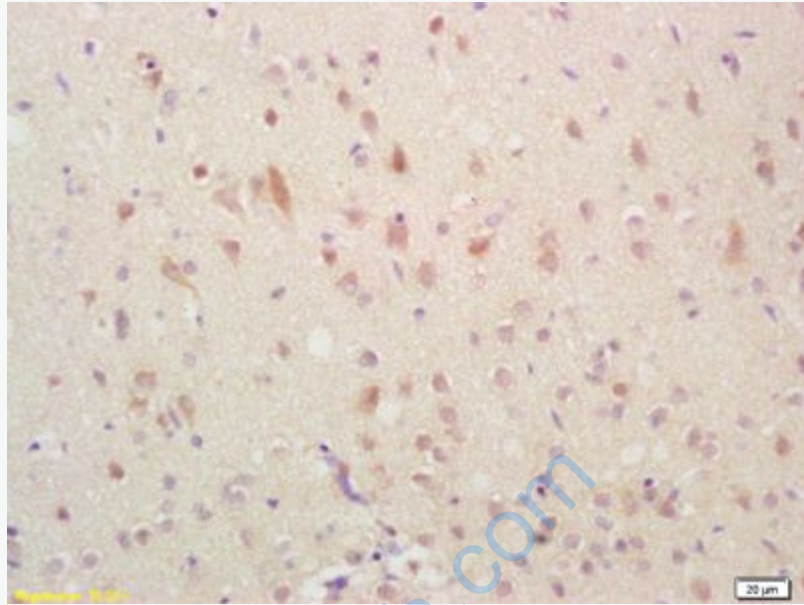
We are unsure as to the identity of these extra bands



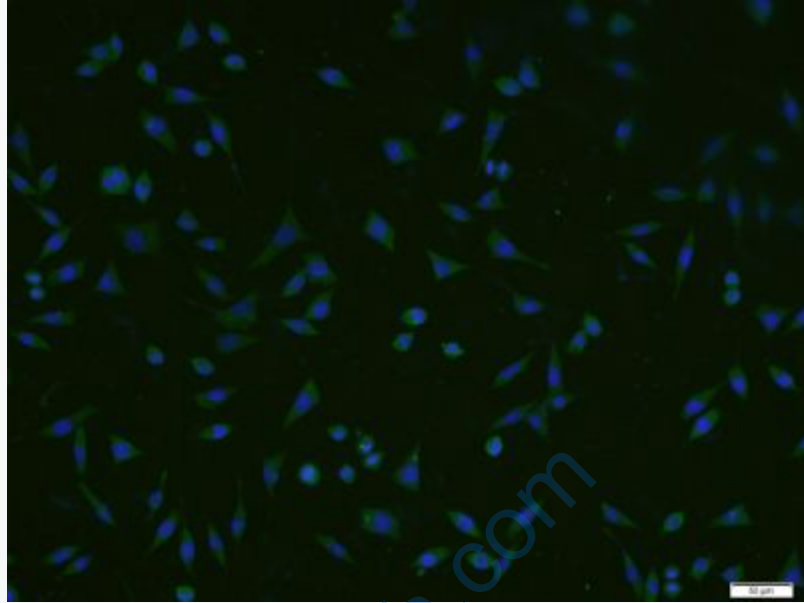
Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GADD45) Polyclonal Antibody, Unconjugated (SL1360R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



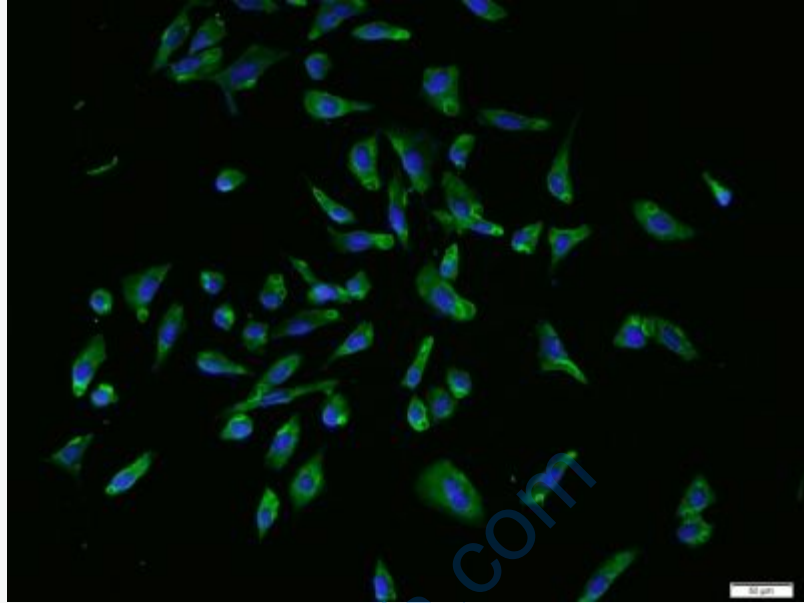
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GADD45) Polyclonal Antibody, Unconjugated (SL1360R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



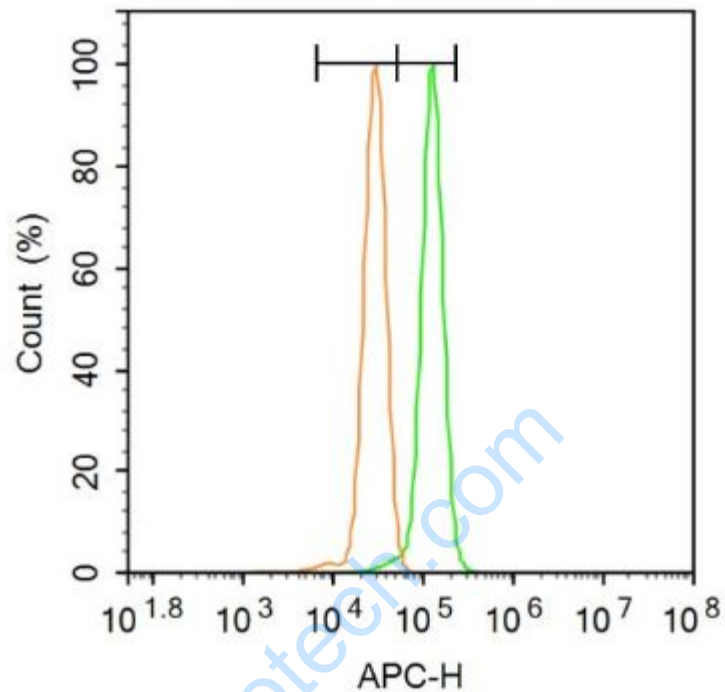
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-GADD45 Polyclonal Antibody, Unconjugated(SL1360R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (GADD45) Polyclonal Antibody, Unconjugated (SL1360R) 1:200, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (SL1360R) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.



Tissue/cell: U-2OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (GADD45) Polyclonal Antibody, Unconjugated (SL1360R) 1:200, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (SL1360R) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.



Blank control: A431.

Primary Antibody (green line): Rabbit Anti-GADD45 antibody (SL1360R)

Dilution: $1\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: $1\mu\text{g} / \text{test}$.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 20% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at -20°C . Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000

	events was performed.
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