

Datasheet for ABIN2783334  
**anti-GADD45B antibody (Middle Region)**

8 Images

5 Publications

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## Overview

Quantity:	100 µL
Target:	GADD45B
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Pig
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human GADD45B
Sequence:	FCCDNDINIV RVSGMQRLAQ LLGEP AETQG TTEARDLHCL LVTNPHTDAW
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 92%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against GADD45B. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	GADD45B
Alternative Name:	GADD45B ( <a href="#">GADD45B Products</a> )

## Target Details

Background:	<p>The function of GADD45B is involved in the regulation of growth and apoptosis. 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 genes in this group respond to environmental stresses by mediating activation of the p38/JNK pathway. This activation is mediated via their proteins binding and activating MTK1/MEKK4 kinase, which is an upstream activator of both p38 and JNK MAPKs. The function of these genes or their protein products is involved in the regulation of growth and apoptosis. These genes are regulated by different mechanisms, but they are often coordinately expressed and can function cooperatively in inhibiting cell growth. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: DKFZP566B133, GADD45BETA, MYD118</p> <p>Protein Interaction Partner: UBD, UBC, MAP3K4, GADD45GIP1, GADD45G, MAP2K7, MAP3K5, PPARG, PPARD, PCNA, PPARA, ESR1, CCNB1, CDK1, CDKN1A, GADD45A, EGR1,</p> <p>Protein Size: 160</p>
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Molecular Weight:	18 kDa
Gene ID:	4616
NCBI Accession:	<a href="#">NM_015675</a> , <a href="#">NP_056490</a>
UniProt:	<a href="#">O75293</a>
Pathways:	<a href="#">Cell Division Cycle</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 160 AA
Restrictions:	For Research Use only

## Handling

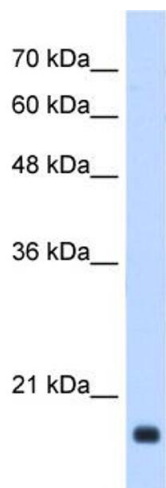
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

## Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in:	<p>Ursini, Cavalleri, Fazio, Angrisano, Iacovelli, Porcelli, Maddalena, Punzi, Mancini, Gelao, Romano, Masellis, Calabrese, Rampino, Taurisano, Di Giorgio, Keller, Tarantini, Sinibaldi, Quarto et al.: "BDNF rs6265 methylation and genotype interact on risk for schizophrenia. ..." in: <b>Epigenetics</b>, Vol. 11, Issue 1, pp. 11-23, (2016) (<a href="#">PubMed</a>).</p> <p>Gavin, Kusumo, Zhang, Guidotti, Pandey: "Role of Growth Arrest and DNA Damage-Inducible, Beta in Alcohol-Drinking Behaviors." in: <b>Alcoholism, clinical and experimental research</b>, Vol. 40, Issue 2, pp. 263-72, (2016) (<a href="#">PubMed</a>).</p> <p>Matrisciano, Dong, Gavin, Nicoletti, Guidotti: "Activation of group II metabotropic glutamate receptors promotes DNA demethylation in the mouse brain." in: <b>Molecular pharmacology</b>, Vol. 80, Issue 1, pp. 174-82, (2011) (<a href="#">PubMed</a>).</p> <p>Gavin, Sharma, Chase, Matrisciano, Dong, Guidotti: "Growth arrest and DNA-damage-inducible, beta (GADD45b)-mediated DNA demethylation in major psychosis." in: <b>Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology</b>, Vol. 37, Issue 2, pp. 531-42, (2011) (<a href="#">PubMed</a>).</p> <p>Tornatore, Marasco, Dathan, Vitale, Benedetti, Papa, Franzoso, Ruvo, Monti: "Gadd45 beta forms a homodimeric complex that binds tightly to MKK7." in: <b>Journal of molecular biology</b>, Vol. 378, Issue 1, pp. 97-111, (2008) (<a href="#">PubMed</a>).</p>
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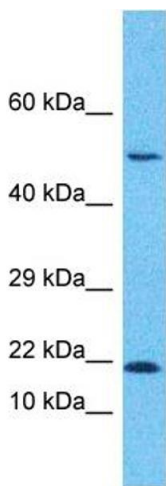
**Western Blotting**

**Image 1.** WB Suggested Anti-GADD45B Antibody Titration:  
0.2-1 ug/ml Positive Control: HepG2 cell lysate



**Western Blotting**

**Image 2.** Host: Mouse Target Name: GADD45B Sample  
Tissue: Mouse Small Intestine Antibody Dilution: 1ug/ml



**Western Blotting**

**Image 3.** Host: Rabbit Target Name: GA45B Sample Type:  
Fetal Lung lysates Antibody Dilution: 3.0ug/ml

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2783334.