

Datasheet for 100-401-863

GADD45 gamma Antibody**Overview**

Description:	Anti-GADD45 gamma (RABBIT) Antibody - 100-401-863
Item No.:	100-401-863
Size:	100 µL
Applications:	ELISA, IP, WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	GADD45 gamma (Growth arrest and DNA-damage-inducible protein also known as cytokine responsive protein CR6) is derived from 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 GADD45 gamma is highly expressed in placenta.
Synonyms:	rabbit anti-GADD45 gamma Antibody, Cytokine responsive protein CR6 antibody, DDIT2 antibody, GADD45G antibody, Growth arrest and DNA damage inducible gamma antibody, GRP17 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	Gadd45g
Reactivity:	Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 142-159 of Mouse GADD45 gamma. Swiss Prot accession number Q9Z111. This sequence represents the C-terminal end of the protein. Mouse and rat GADD45 g show 100% sequence homology. A single amino acid change is found in the human sequence (see below).
Purity/Specificity:	This antibody was prepared from whole rabbit antiserum by delipidation and defibrination. Reactivity occurs against mouse PI3K p110d subunit. Cross reactivity is expected against the human protein as the sequence of the immunogen is 100% identical in both human and mouse. Cross reactivity is also expected against rat PI3K p110d.
Relevant Links:	• UniProtKB - Q9Z111 • NCBI - NP_035947.2 • GenelD - 23882

Application Details

Tested Applications:	ELISA, IP, WB
Application Note:	This antibody has been tested for use in ELISA, western blotting and immunoprecipitation. Reactivity in other immunoassays is unknown. This product was assayed by western blotting after immunoprecipitation of mouse GADD45 gamma from a lysate containing over expressed protein. A 1:100 to 1:500 dilution shows reactivity with a band at 19.2kDa corresponding to mouse GADD45 gamma. Use 10 µL for immunoprecipitation.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IP:	Use 10 µL
WB:	1:100 - 1:500

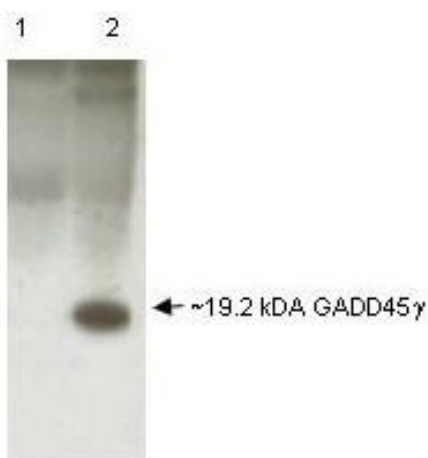
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	85 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Immunoprecipitation and western blot using ROCKLAND Immunochemical Rabbit-anti-GADD45 gamma antibody. Lane 2 shows the detection of a band corresponding to mouse GADD45 gamma detected in a lysate over expressing the protein and the absence of staining in a similar lysate isolated from control cells (lane 1). Molecular weight markers (not shown) confirm a MW of ~19.2 kDa. For IP use ~10 µl of antiserum. For WB use a 1:500 dilution of antiserum. Detection occurs using a 1:2,000 dilution of HRP Goat-a-Rabbit IgG (611-103-122) with visualization via ECL. Film exposure approximately 45". Other detection systems will yield similar results.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.