

For Research Use Only

# GADD45A Recombinant antibody, PBS Only (Capture)

Catalog Number: 84376-4-PBS



## Basic Information

<b>Catalog Number:</b> 84376-4-PBS	<b>GenBank Accession Number:</b> BC011757	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1647	<b>CloneNo.:</b> 241597H4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P24522	
<b>Isotype:</b> IgG	<b>Full Name:</b> growth arrest and DNA-damage-inducible, alpha	
<b>Immunogen Catalog Number:</b> AG4687	<b>Calculated MW:</b> 165 aa, 18 kDa	
	<b>Observed MW:</b> 14-18 kDa, 28-36 kDa	

## Applications

**Tested Applications:**  
WB, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse

## Product Information

84376-4-PBS targets GADD45A as part of a matched antibody pair:

MP01247-2: 84376-4-PBS capture and 84376-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

GADD45A, also named as DDIT1 and GADD45, belongs to the GADD45 family. It binds to proliferating cell nuclear antigen. GADD45A may 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. GADD45A plays an essential role in active DNA demethylation during terminal osteogenic differentiation of adipose-derived mesenchymal stem cells. GADD45A has Dimer (~28-36 kDa) and Monomer (14-18 kDa) forms (PMID:11498536).

## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

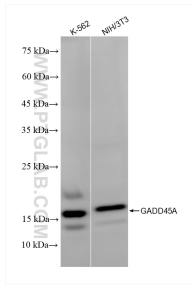
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

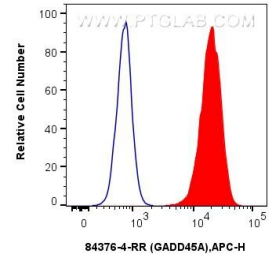
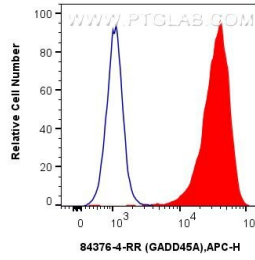
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data

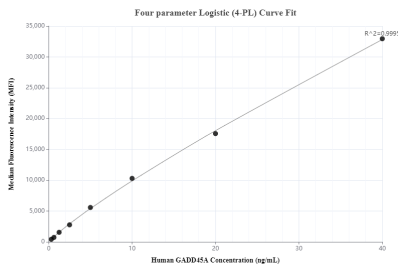


Various lysates were subjected to SDS PAGE followed by western blot with 84376-4-RR (GADD45A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84376-4-PBS in a different storage buffer formulation.

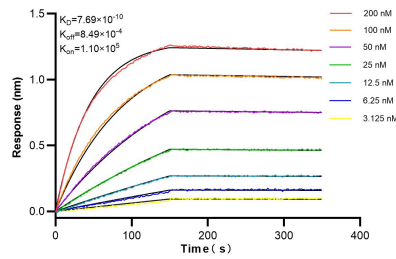


$1 \times 10^6$  K562 were intracellularly stained with 0.25 ug GADD45A Recombinant antibody (84376-4-RR, Clone:241597H4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84376-4-PBS in a different storage buffer formulation.

$1 \times 10^6$  U-2 OS were intracellularly stained with 0.25 ug GADD45A Recombinant antibody (84376-4-RR, Clone:241597H4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84376-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01247-2, GADD45A Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84376-4-PBS. Detection antibody: 84376-1-PBS. Standard: Ag4687. Range: 0.313-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84376-4-RR against Human GADD45A were performed. The affinity constant is 0.769 nM.