

For Research Use Only

GADD45A Recombinant antibody

Catalog Number: 84376-4-RR



Basic Information

Catalog Number:

84376-4-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4687

GenBank Accession Number:

BC011757

GeneID (NCBI):

1647

UNIPROT ID:

P24522

Full Name:

growth arrest and DNA-damage-inducible, alpha

Calculated MW:

165 aa, 18 kDa

Observed MW:

14-18 kDa, 28-36 kDa

Purification Method:

Protein A purification

CloneNo.:

241597H4

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : K-562 cells, NIH/3T3 cells

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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

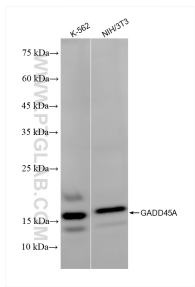
T: 4006900926

E: Proteintech-CN@ptglab.com

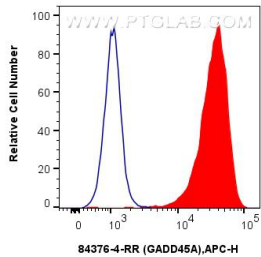
W: ptgcn.com

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

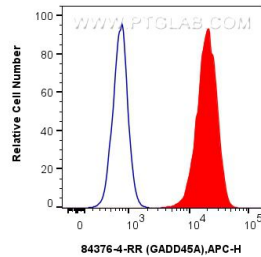
Selected Validation Data



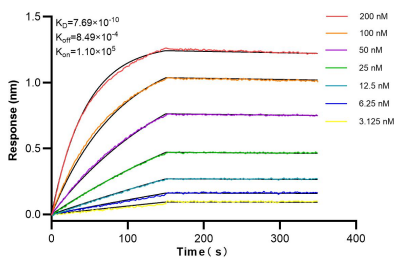
Various lysates were subjected to SDS PAGE followed by western blot with 84376-4-RR (GADD45A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ 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.



1x10⁶ 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.



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