

For Research Use Only

GADD45A Recombinant antibody

Catalog Number: 84376-4-RR



Basic Information

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| Catalog Number: 84376-4-RR | GenBank Accession Number: BC011757 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 1647 | CloneNo.: 241597H4 |
| Source: Rabbit | UNIPROT ID: P24522 | Recommended Dilutions: WB 1:5000-1:50000 |
| Isotype: IgG | Full Name: growth arrest and DNA-damage-inducible, alpha | |
| Immunogen Catalog Number: AG4687 | Calculated MW: 165 aa, 18 kDa | |
| | Observed MW: 14-18 kDa, 28-36 kDa | |

Applications

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| Tested Applications: WB, FC (Intra), ELISA | Positive Controls: WB : K-562 cells, NIH/3T3 cells |
| Species Specificity: human, mouse | |

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

*** 20ul sizes contain 0.1% BSA

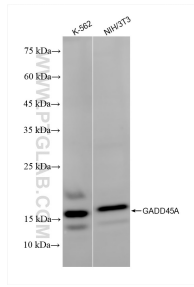
For technical support and original validation data for this product please contact:

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

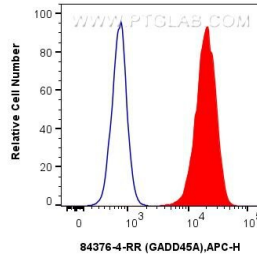
E: proteintech@ptglab.com
W: ptglab.com

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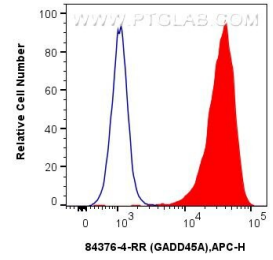
Selected Validation Data



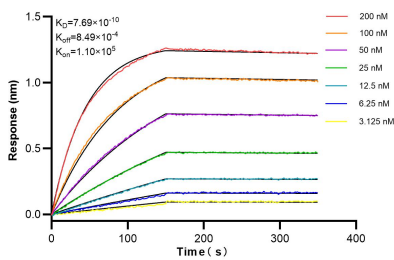
Various lysates were subjected to SDS PAGE followed by western blot with 84376-4-RR (GADD45A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 U-2 OS were intracellularly stained with 0.25 μ g GADD45A Recombinant antibody (84376-4-RR, Clone:241597H4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



1×10^6 K562 were intracellularly stained with 0.25 μ g GADD45A Recombinant antibody (84376-4-RR, Clone:241597H4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



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