Product datasheet

Anti-GADD153/DDIT3 Antibody

Catalog Number: *A00311-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-GADD153/DDIT3 Antibody
Gene Name	DDIT3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human DDIT3 recombinant protein (Position: M1-A169).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	29 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

DNA damage-inducible transcript 3, also known as C/EBP homologous protein (CHOP), is a pro-apoptotictranscription factor that is encoded by the DDIT3 gene. It is mapped to 12q13.3. This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma.

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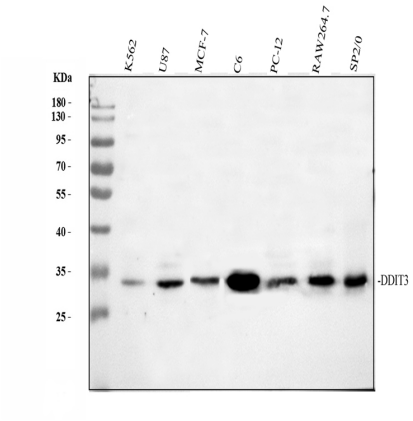
Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified.

Reference

Anti-GADD153/DDIT3 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of GADD153/DDIT3 using anti-GADD153/DDIT3 antibody (A00311-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: human U87 whole cell lysates,
Lane 3: human MCF-7 whole cell lysates,
Lane 4: rat C6 whole cell lysates,
Lane 5: rat PC-12 whole cell lysates,
Lane 6: mouse RAW264.7 whole cell lysates,
Lane 7: mouse SP2/0 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GADD153/DDIT3 antigen affinity purified polyclonal antibody (A00311-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GADD153/DDIT3 at approximately 29 kDa. The expected band size for GADD153/DDIT3 is at 19 kDa.

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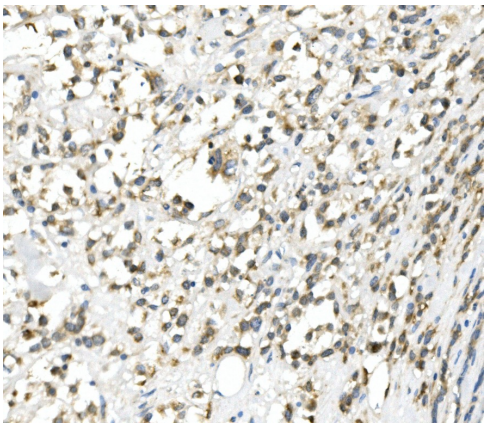
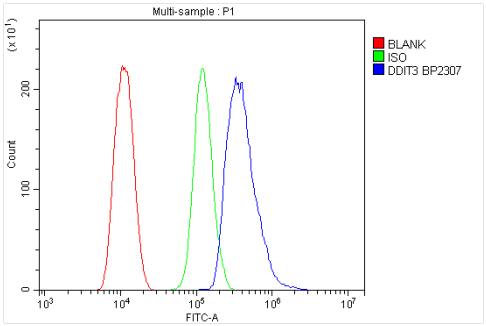


IHC analysis of GADD153/DDIT3 using anti-GADD153/DDIT3 antibody (A00311-2).
GADD153/DDIT3 was detected in a paraffin-embedded section of human B lymphocytic tumor tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-GADD153/DDIT3 Antibody (A00311-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of THP-1 cells using anti-GADD153/DDIT3 antibody (A00311-2).
Overlay histogram showing THP-1 cells stained with A00311-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GADD153/DDIT3 Antibody (A00311-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.