GADD 153 has been described as a growth arrest and DNA damage-inducible gene that encodes a C/EBP-related nuclear protein. This protein has also been designated C/EBP-homologous protein (CHOP-10). GADD 153 expression is induced by a variety of cellular stresses, inducing nutrient deprivation and metabolic perturbations. GADD 153 functions to block cells in G1 to S phase in cell cycle progression and acts by dimerizing with other C/EBP proteins to direct GADD 153 dimers away from “classical” C/EBP binding sites, recognizing instead unique “nonclassical” sites. Thus GADD 153 acts as a negative modulator of C/EBP-like proteins in certain interminally differentiated cells, similar to the regulatory function of Id on the activity of Myo D and Myo D-related proteins involved in the development of muscle cells.

**CHROMOSOMAL LOCATION**
Genetic locus: DDIT3 (human) mapping to 12q13.3; Ddit3 (mouse) mapping to 10 D3.

**SOURCE**
GADD 153 (B-3) is a mouse monoclonal antibody raised against amino acids 1-168 representing full length GADD 153 of mouse origin.

**PRODUCT**
Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

GADD 153 (B-3) is available conjugated to agarose (sc-7351A C), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-7351 H RP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-7351 PE), fluorescein (sc-7351FITC), Alexa Fluor® 488 (sc-7351 AF488) or Alexa Fluor® 647 (sc-7351 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

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**APPLICATIONS**
GADD 153 (B-3) is recommended for detection of GADD 153 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of GADD 153: 30 kDa.

Positive Controls: GADD 153 (m): 293T Lysate: sc-120383, RAW 264.7 whole cell lysate: sc-2211 or RAW 264.7 + LPS/PMA cell lysate: sc-2212.

**STORAGE**
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**
GADD 153 (B-3): sc-7351. Western blot analysis of GADD 153 expression in non-transfected: sc-117752 (A) and mouse GADD 153 transfected: sc-120383 (B) 293T whole cell lysates.

**SELECT PRODUCT CITATIONS**

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.