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# GADD 153 (1-168): sc-4066 WB

## BACKGROUND

It is well established that cell cycle progression is subject to arrest at G1 and G2 checkpoints in response to DNA damage, presumably to allow time for DNA repair prior to entry into S and M phase, respectively. The p53 tumor suppressor is required for one such G1 checkpoint and functions to upregulate expression of GADD 45 and the mitotic inhibitory protein, p21. GADD 45 has been shown to stimulate DNA excision repair *in vitro* and to inhibit entry of cells into S phase. GADD 45 apparently acts in concert with GADD 153 in inducing growth arrest. While GADD 153 is also inducible by DNA damage, its induction has been reported to be independent of p53. A third growth arrest gene, GADD 34, has also been described.

## REFERENCES

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## SOURCE

GADD 153 (1-168) is expressed in *E. coli* as a 57 kDa tagged fusion protein corresponding to amino acids 1-168 of the full length GADD 153 protein of mouse origin.

## PRODUCT

GADD 153 (1-168) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10  $\mu$ g in 0.1 ml SDS-PAGE loading buffer.

## STORAGE

Store at -20° C; stable for one year from the date of shipment.

## APPLICATIONS

GADD 153 (1-168) is suitable as a Western blotting control for sc-575, sc-793 and sc-7351.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.