

## GADD 45 $\gamma$ (S123) polyclonal antibody

Catalog: BS9140

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

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 p21. GADD 45 binds both Cdks and PCNA, a protein involved in DNA replication and repair. GADD 45 stimulates DNA excision repair in vitro and inhibits entry of cells into S phase. Thus, it has been suggested that GADD 45 may serve as a link between the p53-dependent cell cycle checkpoint and DNA repair. GADD 45-like proteins, GADD 45 $\beta$  and GADD 45 $\gamma$ , have been shown to be induced by environmental stresses. GADD 45 $\beta$  and GADD 45 $\gamma$  are thought to induce p38/JNK activation via MEKK4 activation.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 17 kDa

### Swiss-Prot:

O95257

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

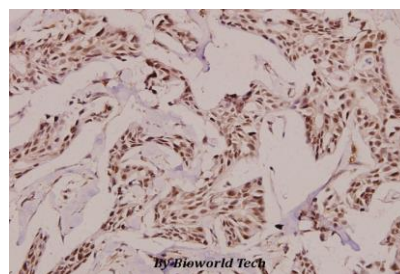
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

GADD 45 $\gamma$  (S123) polyclonal antibody detects endogenous levels of GADD 45 $\gamma$  protein.

### DATA:



Immunohistochemistry (IHC) analyzes of GADD 45 $\gamma$  (S123) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

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

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