

# **Human GADD45α Antibody**

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5510

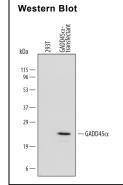
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human GADD45α in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human GADD45α Met1-Arg165 Accession # P24522
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

#### DATA



Detection of Human GADD45α by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line either mock transfected or transfected with full length human GADD45α. PVDF membrane was probed with 1  $\mu$ g/mL Human GADD45α Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5510) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for GADD45α was detected at approximately 25 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS

**Shipping**The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

## Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

### BACKGROUND

GADD45α (Growth arrest and DNA damage-inducible protein 45 alpha) is a 19 kDa member of the GADD45 family of proteins. It is ubiquitously expressed, and induced by DNA damage. Upon induction, GADD45α binds to PCNA, stimulates DNA excision repair, and initiates G2 cell cycle arrest. Human GADD45α is 165 amino acids (aa) in length. It is reported to dimerize with GADD45-β and -γ, and to homo-dimerize, -trimerize and -tetramerize via residues 33-61 and 133-165. There is one splice variant that shows a Ser substitution for aa 14-49. GADD45α is 55% aa identical to GADD45-β and -γ, and shares 94% aa identity with mouse GADD45α.

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