

DESCRIPTION

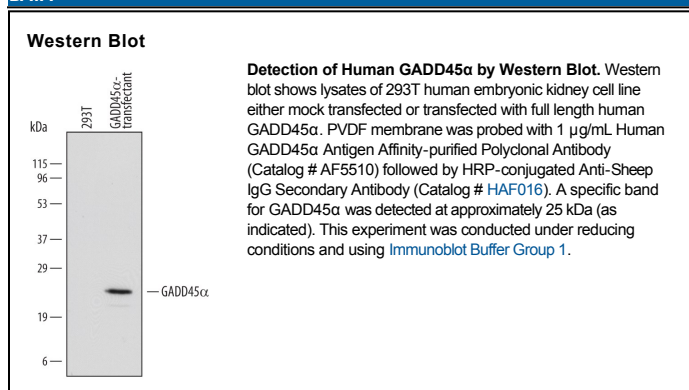
Species Reactivity	Human
Specificity	Detects human GADD45 α in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GADD45 α Met1-Arg165 Accession # P24522
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

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. <ul style="list-style-type: none"> ● 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

GADD45 α (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, GADD45 α binds to PCNA, stimulates DNA excision repair, and initiates G2 cell cycle arrest. Human GADD45 α 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. GADD45 α is 55% aa identical to GADD45- β and - γ , and shares 94% aa identity with mouse GADD45 α .