

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GADD45α in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GADD45α Met1-Arg165 Accession # P24522
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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