Human GADD153 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 671708

Catalog Number: FAB7224G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GADD153 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 671708
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human GADD153 Met1-Ala169 Accession # P35638
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.*

Immunocytochemistry	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

GADD153, also known as CCAAT-enhancer binding protein zeta (C/EBPz), DDIT, and CHOP, is a ubiquitous 29 kDa basic-leucine zipper transcription factor. GADD153 heterodimerization with other C/EBP factors inhibits their activity and alters their DNA sequence recognition. GADD153 inhibits Wnt signaling by dimerizing with the transcription factors TCF-3 and TCF-4. It is upregulated under conditions of cellular stress including DNA damage, oxidative damage, nutrient depletion, ER stress, and mechanical stress, whereupon it promotes the apoptotic response. The transcriptional activity of GADD153 is enhanced by phosphorylation at Ser 78 and Ser 81. Human GADD153 shares 88% and 90% amino acid sequence identity with mouse and rat GADD153, respectively.

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