10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GADD45GIP1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20586a

Product Information

Application	WB, FC, E
Primary Accession	Q8TAE8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB48708
Calculated MW	25384

Additional Information

Gene ID	90480
Other Names	Growth arrest and DNA damage-inducible proteins-interacting protein 1, 39S ribosomal protein L59, mitochondrial, MRP-L59, CKII beta-associating protein, CR6-interacting factor 1, CRIF1, Papillomavirus L2-interacting nuclear protein 1, PLINP, PLINP-1, p53-responsive gene 6 protein, GADD45GIP1, MRPL59, PLINP1, PRG6
Target/Specificity	This GADD45GIP1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 13-45 amino acids from the N-terminal region of human GADD45GIP1.
Dilution	WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GADD45GIP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GADD45GIP1
Synonyms	MRPL59, PLINP1, PRG6

Function	Acts as a negative regulator of G1 to S cell cycle phase progression by inhibiting cyclin-dependent kinases. Inhibitory effects are additive with GADD45 proteins but also occur in the absence of GADD45 proteins. Acts as a repressor of the orphan nuclear receptor NR4A1 by inhibiting AB domain-mediated transcriptional activity. May be involved in the hormone-mediated regulation of NR4A1 transcriptional activity. May play a role in mitochondrial protein synthesis.
Cellular Location	Mitochondrion. Nucleus Note=Using N-terminally tagged constructs, has been found in the nucleus (PubMed:12482659). C-terminally tagged constructs are targeted exclusively to mitochondria (PubMed:22453275). This discrepancy may be explained by masking of a potential N-terminal mitochondrial targeting signal by the tag (PubMed:22453275).
Tissue Location	Widely expressed. Highly expressed in the thyroid gland, heart, lymph nodes, trachea and adrenal tissues. Expressed at lower level in liver skeletal muscle, kidney, pancreas, testis, ovary and stomach. Barely detectable in adrenal adenoma and papillary thyroid cancer.

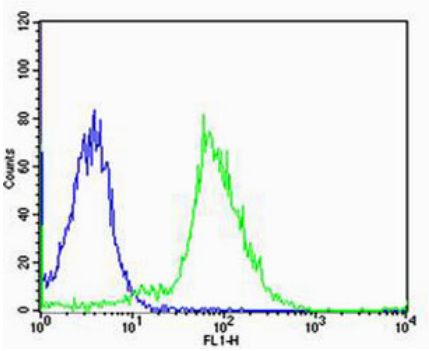
Background

Acts as a negative regulator of G1 to S cell cycle phase progression by inhibiting cyclin-dependent kinases. Inhibitory effects are additive with GADD45 proteins but occurs also in the absence of GADD45 proteins. Acts as a repressor of the orphan nuclear receptor NR4A1 by inhibiting AB domain-mediated transcriptional activity. May be involved in the hormone-mediated regulation of NR4A1 transcriptional activity. May play a role in mitochondrial protein synthesis.

References

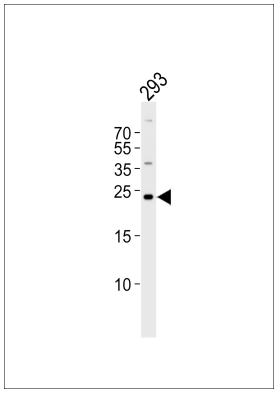
Goernemann J.,et al.Virology 303:69-78(2002).
Chung H.K.,et al.J. Biol. Chem. 278:28079-28088(2003).
Frigimelica E.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.
Horikoshi N.,et al.Biochem. Biophys. Res. Commun. 261:864-869(1999).
Park K.C.,et al.Mol. Endocrinol. 19:12-24(2005).

Images



Flow cytometric analysis of MCF-7 cells using GADD45GIP1 Antibody (N-term)(green, Cat#AP20586a) compared to an isotype control of rabbit IgG(blue). AP20586a was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody.

Western blot analysis of lysate from 293 cell line, using GADD45GIP1 Antibody (N-term) (Cat. #AP20586a). AP20586a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



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