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 # AW5286

Product Information

Application	FC, WB
Primary Accession	Q8TAE8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25384
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	90480
Antigen Region	13-45
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
Dilution	FC~~1:25 WB~~1:1000
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.
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).
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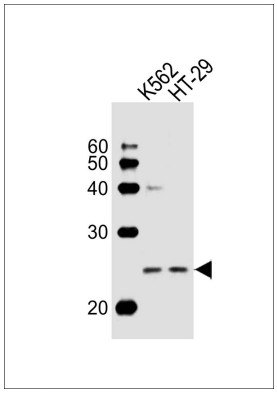
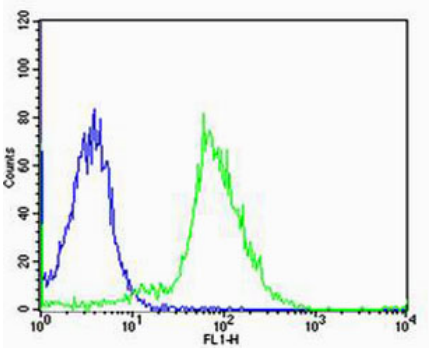
Horikoshi N.,et al.Biochem. Biophys. Res. Commun. 261:864-869(1999).
Park K.C.,et al.Mol. Endocrinol. 19:12-24(2005).

Images



Western blot analysis of lysates from K562,HT-29 cell line (from left to right), using GADD45GIP1 Antibody (N-term)(Cat. #AW5286). AW5286 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

Flow cytometric analysis of MCF-7 cells using GADD45GIP1 Antibody (N-term)(green, Cat#AW5286) compared to an isotype control of rabbit IgG(blue). AW5286 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody.



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