

For Research Use Only

# GADD45GIP1 Recombinant antibody

Catalog Number:83823-5-RR



## Basic Information

<b>Catalog Number:</b> 83823-5-RR	<b>GenBank Accession Number:</b> BC013027	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 850 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 90480	<b>CloneNo.:</b> 240947D1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8TAE8	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> growth arrest and DNA-damage-inducible, gamma interacting protein 1	
<b>Immunogen Catalog Number:</b> AG9299	<b>Calculated MW:</b> 222 aa, 25 kDa	
	<b>Observed MW:</b> 25-28 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : SKOV-3 cells, Jurkat cells, U-251 cells IHC : human ovarian cancer,
<b>Species Specificity:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Growth arrest and DNA-damage-inducible proteins-interacting protein 1(GADD45GIP1), also known as CRIF1, is newly identified de novo components in large subunit of mitoribosome. It is essential for the translation of mitochondrial oxidative phosphorylation (OXPHOS) polypeptides in mammalian mitochondria. The essential role of CRIF1 in mitochondrial synthesis and membrane integration of OXPHOS polypeptides was shown in brain-specific CRIF1-deficient mice, which exhibited profound OXPHOS failure and marked neurodegeneration. (PMID 22819524) In addition, GADD45GIP1 enhances the function of GADD45 in maintaining genome stability, DNA repair and cell cycle regulation by interacting with the GADD45 protein family. It's reported that GADD45GIP1 may be induced by p53, a process that is closely related to the cell's response to DNA damage.(PMID:28599472)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

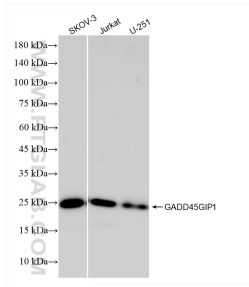
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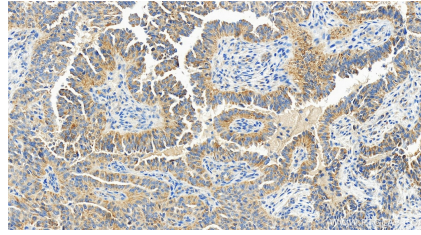
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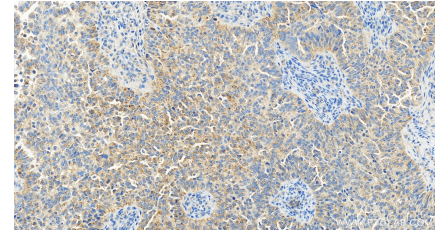
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83823-5-RR (GADD45GIP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83823-5-RR (GADD45GIP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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