

For Research Use Only

# GAR1 Recombinant antibody

Catalog Number: 83577-1-RR



## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
83577-1-RR	BC003413	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
100ul , Concentration: 1000 ug/ml by Nanodrop;	54433	240537C11
Source:	UNIPROT ID:	Recommended Dilutions:
Rabbit	Q9NY12	IHC 1:250-1:1000
Isotype:	Full Name:	IF/ICC 1:150-1:600
IgG	GAR1 ribonucleoprotein homolog (yeast)	
Immunogen Catalog Number:	Calculated MW:	
AG2282	217 aa, 22 kDa	

## Applications

Tested Applications:	Positive Controls:
IHC, IF/ICC, ELISA	IHC : human skin cancer tissue,
Species Specificity:	IF/ICC : HepG2 cells,
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

GAR1, other named NOLA1, is a subunit of H/ACA and telomerase. Thought is not required for H/ACA protein assembly, GAR1 is necessary for ribosome biogenesis and telomere. H/ACA involves in class specify the sites of uridine-to-pseudouridine. It contains a core domain that flanked by glycine- and arginine-rich(GAR) domains. GAR1 also required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase(TERT) holoenzyme.

## Storage

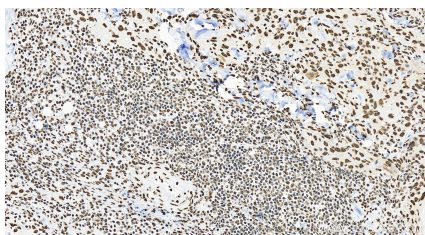
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

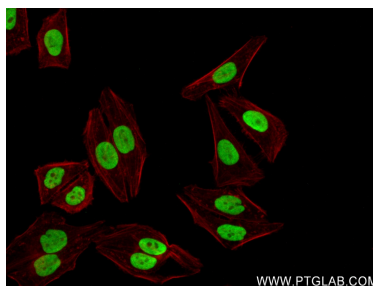
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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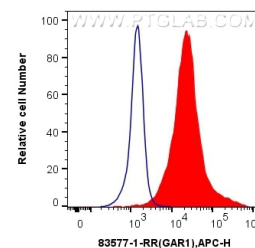
## Selected Validation Data



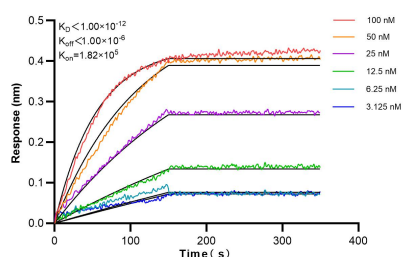
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 83577-1-RR (GAR1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using GAR1 antibody (83577-1-RR, Clone: 240537C11) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



$1 \times 10^6$  K562 were intracellularly stained with 0.25 ug GAR1 Recombinant antibody (83577-1-RR, Clone:240537C11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83577-1-RR against Human GAR1 were performed. The affinity constant is below 1 pM.