

For Research Use Only

GAR1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83577-1-PBS



Basic Information

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

Applications

Tested Applications:
IHC, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

83577-1-PBS targets GAR1 as part of a matched antibody pair:

MP00568-1: 83577-2-PBS capture and 83577-1-PBS detection (validated in Cytometric bead array)

MP00568-2: 83577-3-PBS capture and 83577-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 -80°C.

Storage Buffer:
PBS Only

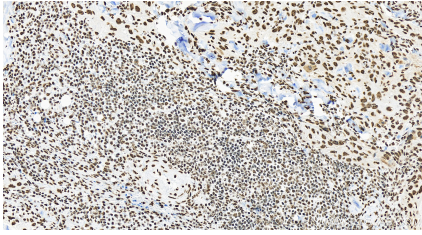
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

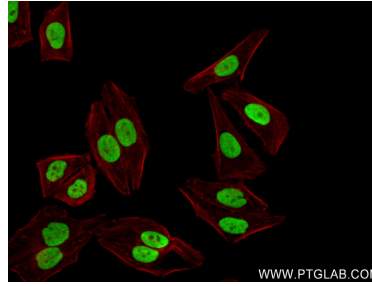
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

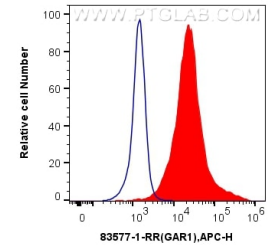
Selected Validation Data



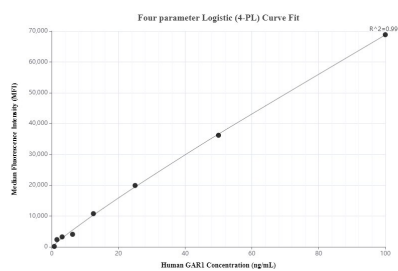
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 83577-1-RR (GAR1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83577-1-PBS in a different storage buffer formulation.



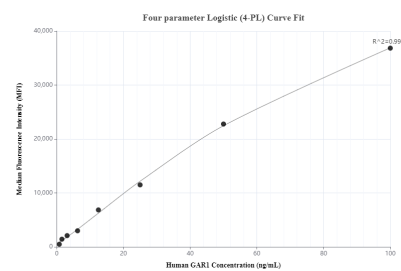
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using GAR1 antibody (83577-1-RR, Clone: 240537C11) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83577-1-PBS in a different storage buffer formulation.



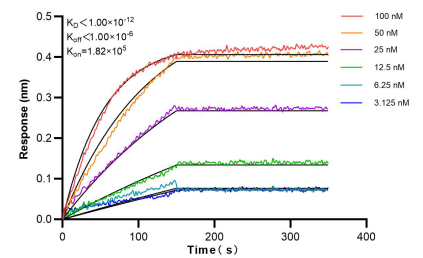
1×10^6 K562 were intracellularly stained with 0.25 ug GAR1 Recombinant antibody (83577-1-RR, Clone:240537C11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83577-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00568-1, GAR1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83577-2-PBS. Detection antibody: 83577-1-PBS. Standard: Ag2282. Range: 0.781-100 ng/mL.



Cytometric bead array standard curve of MP00568-2, GAR1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83577-3-PBS. Detection antibody: 83577-1-PBS. Standard: Ag2282. Range: 0.781-100 ng/mL.



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