Datasheet for ABIN6242352

anti-GARS antibody (AA 15-305)

3 Images

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Overview

Quantity:	200 µL
Target:	GARS
Binding Specificity:	AA 15-305
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GARS antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	This GARS antibody is generated from a mouse immunized with a recombinant protein between 15-305 amino acids from human GARS.
Clone:	1641CT837-23-96
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	GARS
Alternative Name:	GARS (GARS Products)
Background:	Catalyzes the attachment of glycine to tRNA(Gly). Is also able produce diadenosine

Target Details

	tetraphosphate (Ap4A), a universal pleiotropic signaling molecule needed for cell regulation pathways, by direct condensation of 2 ATPs.
Molecular Weight:	83166
UniProt:	P41250
Pathways:	Ribonucleoside Biosynthetic Process

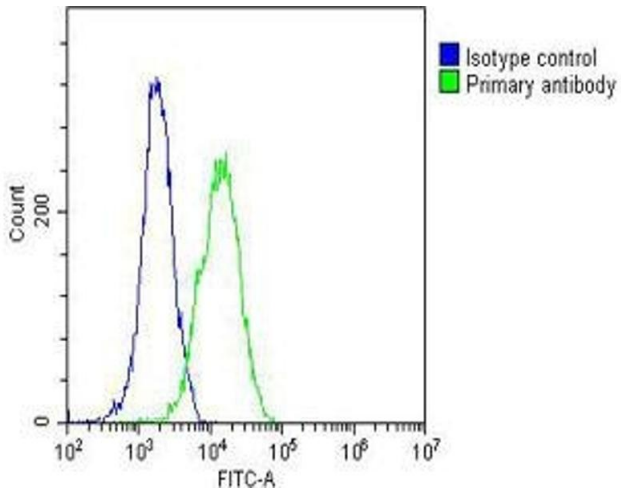
Application Details

Application Notes:	IF: 1:25. WB: 1:2000. FC: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

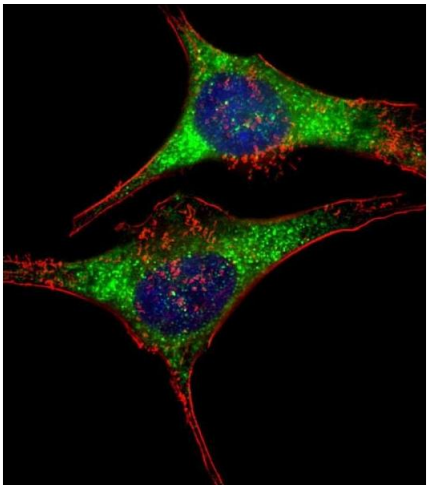
Images



Flow Cytometry

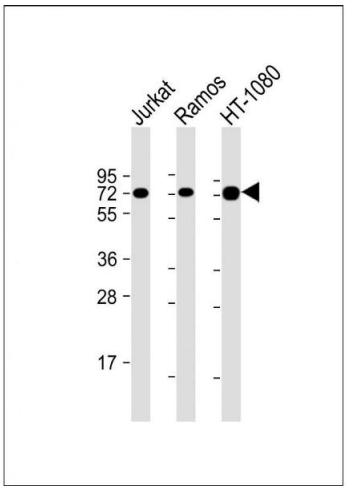
Image 1. Overlay histogram showing U-2OS cells stained with (ABIN6242352 and ABIN6577162)(green line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then icubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN6242352 and ABIN6577162), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-

Adsorbed(OJ192088) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was mouse IgG1 (1 µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Immunofluorescence

Image 2. Immunofluorescent analysis of 4 % paraformaldehyde-fixed, 0.1 % Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling GARS with (ABIN6242352 and ABIN6577162) at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-mouse IgG (NA166821) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and weak nucleus staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DI (blue).



Western Blotting

Image 3. All lanes : Anti-GARS Antibody at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: Ramos whole cell lysate Lane 3: HT-1080 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.