

Glutaminase C (GAC) Polyclonal Antibody

Product Details

Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein encompassing a sequence within the C-terminus region of human Glutaminase C.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2609956

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:10,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
Immunoprecipitation (IP)	1:100-1:500	-

Product Specific Information

This antibody specifically recognizes GAC but not the KGA isoform.

Predicted reactivity: Bovine (100%).

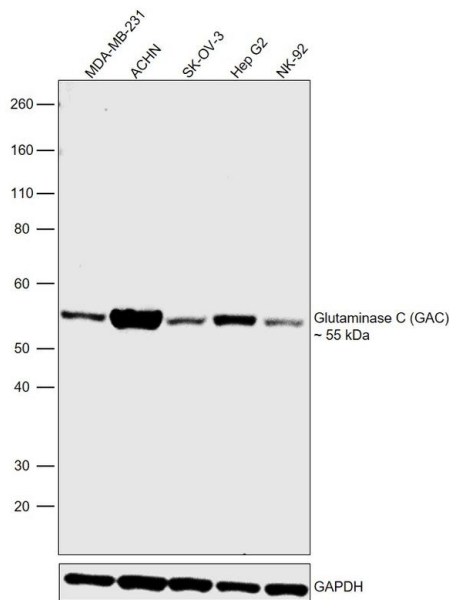
Recommended positive controls: MDA-MB-231 and cholangiocarcinoma tissue.

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Glutaminase C (GAC) Polyclonal Antibody

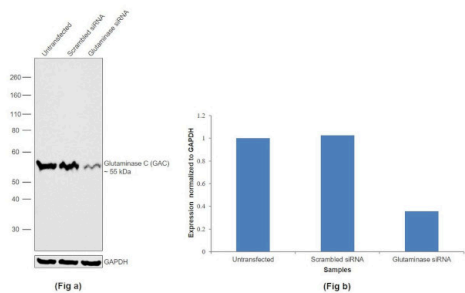
Glutaminase C (GAC) Antibody (PA5-40134) in WB

Western blot was performed using Anti-Glutaminase C (GAC) Polyclonal Antibody (Product # PA5-40134) and a 55 kDa band corresponding to Glutaminase was observed across all the cell lines tested. Whole cell extracts (30 µg lysate) of MDA-MB-231 (Lane 1), ACHN (Lane 2), SK-OV-3 (Lane 3), Hep G2 (Lane 4) and NK-92 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:5000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



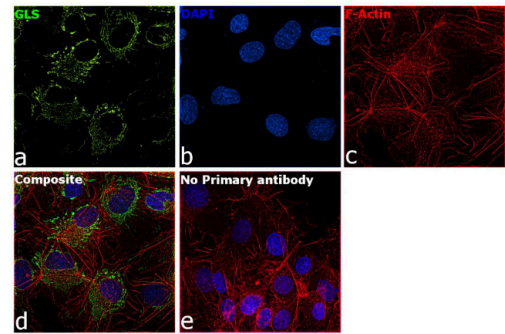
Glutaminase C (GAC) Antibody (PA5-40134)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. ACHN cells were transfected with Glutaminase siRNA and decrease in signal intensity was observed in western blot application using Glutaminase C (GAC) Polyclonal Antibody (Product # PA5-40134). {KD}



Glutaminase C (GAC) Antibody (PA5-40134) in ICC/IF

Immunofluorescence analysis of GLS was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Glutaminase C (GAC) Polyclonal Antibody (Product # PA5-40134) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing mitochondrial pattern in cytoplasm. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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