PHGDH Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 175 of Human PHGDH
Form	Liquid
Concentration	0.87 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol
Contains	0.01% thimerosal
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2545054

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
Immunoprecipitation (IP)	1:100-1:500	-

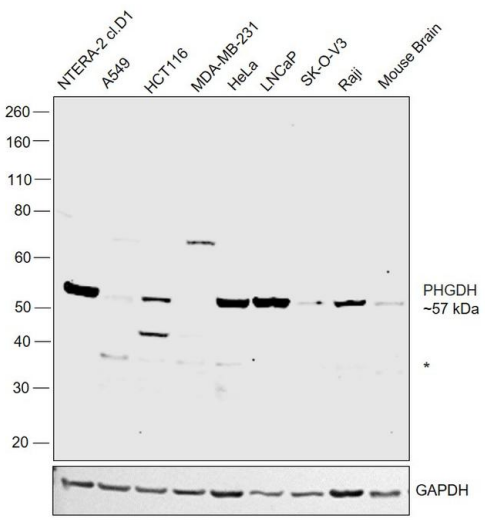
Product Specific Information

Recommended positive controls: HeLa, 293T, A431, HeLaS3, mouse brain, SK-N-DZ.

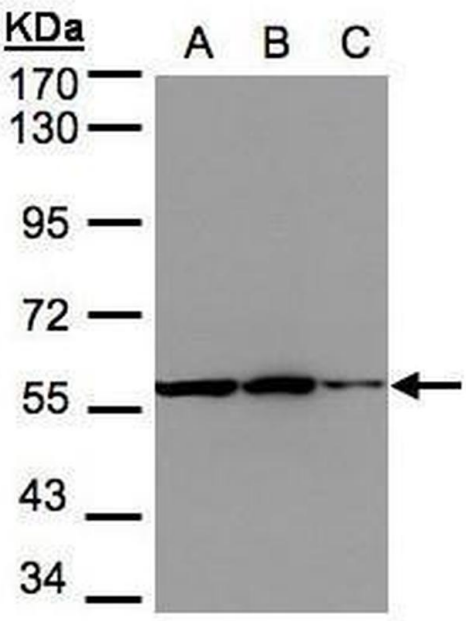
Predicted reactivity: Mouse (99%), Rat (97%), Pig (97%), Chimpanzee (100%), Bovine (97%).

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

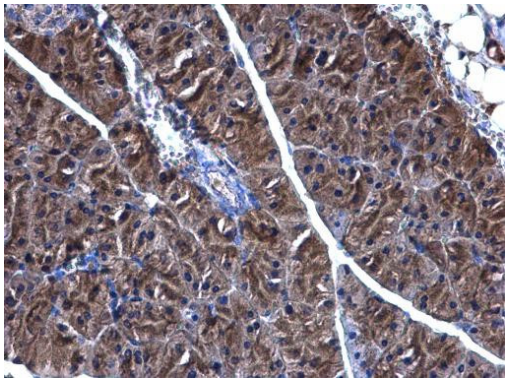
Product Images For PHGDH Polyclonal Antibody



PHGDH Antibody (PA5-27578) in WB
Western Blot was performed using Anti-PHGDH Polyclonal Antibody (Product # PA5-27578) and a 57 kDa band corresponding to D-3-phosphoglycerate dehydrogenase was observed across cell lines and tissue tested except in A549, MDA-MB-231, and SK-O-V3 which are reported to be low to negative for PHGDH expression. An additional uncharacterized band (*) was observed across the panel. Whole-cell extracts (30 µg lysate) of NTERA-2 cl.D1 (Lane 1), A549 (Lane 2), HCT 116 (Lane 3), MDA-MB-231 (Lane 4), HeLa (Lane 5), LNCaP (Lane 6), SK-O-V3 (Lane 7), Raji (Lane 8) and Mouse Brain (Lane 9) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). 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 (1:1000 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).



PHGDH Antibody (PA5-27578) in WB
Western Blot using PHGDH Polyclonal Antibody (Product # PA5-27578). Sample (30 µg of whole cell lysate). A: 293T. B: A431. C: HeLa S3. 7.5% SDS PAGE. PHGDH Polyclonal Antibody (Product # PA5-27578) diluted at 1:1,000.



PHGDH Antibody (PA5-27578) in IHC (P)
PHGDH Polyclonal Antibody detects PHGDH protein at cytoplasm on mouse pancreas by immunohistochemical analysis. Sample: Paraffin-embedded mouse pancreas. PHGDH Polyclonal Antibody (Product # PA5-27578) diluted at 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

View more figures on thermofisher.com

1 Reference

Immunohistochemistry (1)

The Journal of clinical investigation

Cul4A-DDB1-mediated monoubiquitination of phosphoglycerate dehydrogenase promotes colorectal cancer metastasis via increased S-adenosylmethionine.

"PA5-27578 was used in Immunohistochemistry to reveal a potentially new role and mechanism of SAM-promoted tumor metastasis but also demonstrate a regulatory mechanism of PHGDH activity by monoubiquitination."

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Year
2021

Species
Human

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