

Product Datasheet

PHGDH Antibody NBP1-87311

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-87311

PHGDH Antibody

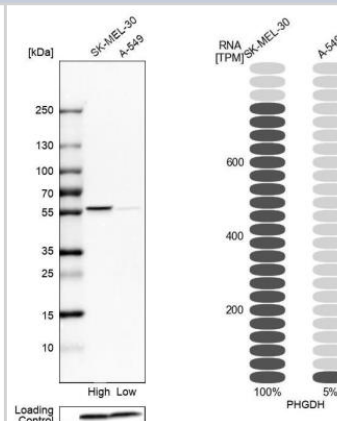
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	26227
Gene Symbol	PHGDH
Species	Human, Mouse, Rat
Reactivity Notes	Reactivity reported in scientific literature (PMID: 22438825)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LEEIWPLCDFITVHTPLLPSTTGLLNDNTFAQCKKGVRVVNCARGGIVDEGALL RALQSGQCAGAALDVFTEEPDRALVDHENVISCPHLGASTKEAQSRCGEEI AVQFVDM

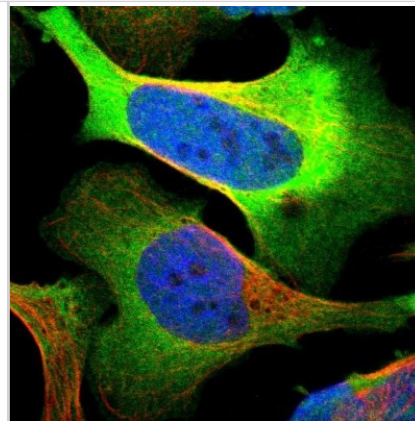
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	WB reported in literature (PMID:30037819). ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. IHC-Paraffin HIER pH6 retrieval is recommended.

Images

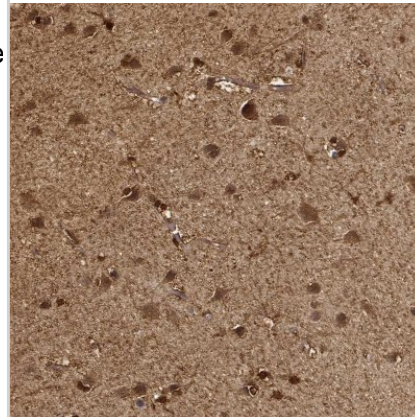
Western Blot: PHGDH Antibody [NBP1-87311] - Analysis in human cell lines SK-MEL-30 and A-549. Corresponding RNA-seq data are presented for the same cell lines. Loading control: Anti-COX411.



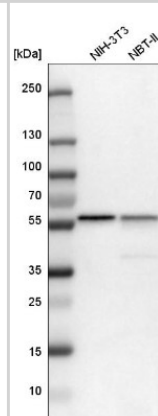
Immunocytochemistry/Immunofluorescence: PHGDH Antibody [NBP1-87311] - Staining of human cell line U-2 OS shows localization to plasma membrane & cytosol. Antibody staining is shown in green.



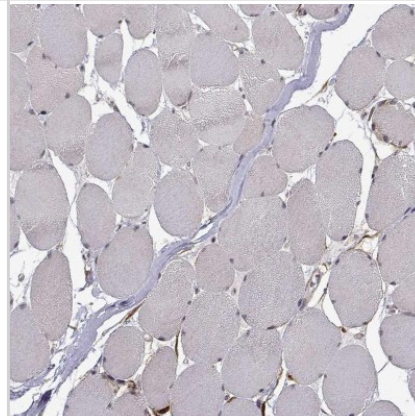
Immunohistochemistry-Paraffin: PHGDH Antibody [NBP1-87311] - Immunohistochemical staining of human cerebral cortex shows moderate to strong cytoplasmic positivity in neuronal and glial cells.



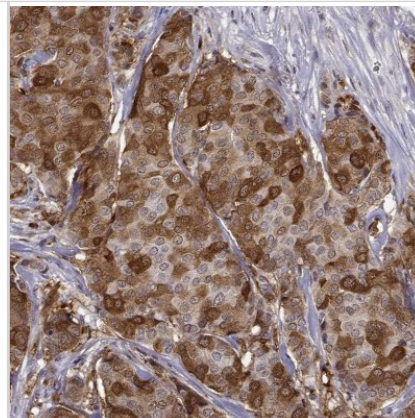
Western Blot: PHGDH Antibody [NBP1-87311] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



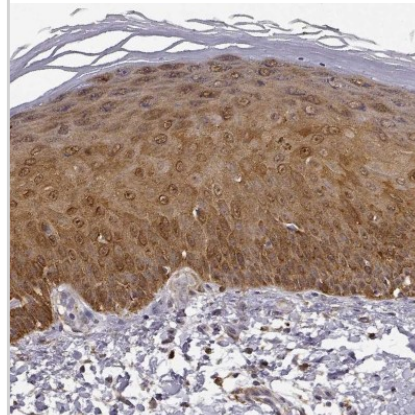
Immunohistochemistry-Paraffin: PHGDH Antibody [NBP1-87311] - Immunohistochemical staining of human skeletal muscle shows no positivity as expected.



Immunohistochemistry-Paraffin: PHGDH Antibody [NBP1-87311] - Immunohistochemical staining of human breast cancer shows moderate to strong cytoplasmic positivity in tumor cells.



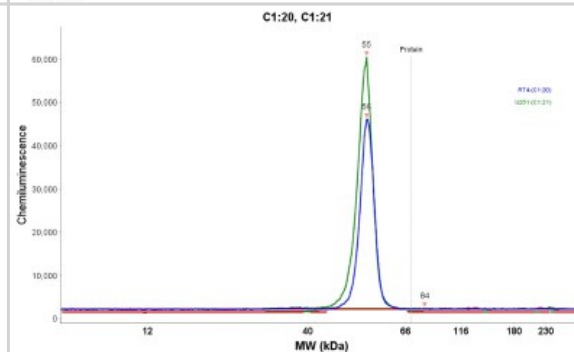
Immunohistochemistry-Paraffin: PHGDH Antibody [NBP1-87311] - Immunohistochemical staining of human skin shows moderate cytoplasmic positivity in epidermal cells.



Simple Western: PHGDH Antibody [NBP1-87311] - Simple Western lane view shows a specific band for PHGDH in 0.2 mg/ml of RT-4 (Left) and U-251MG (Right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: PHGDH Antibody [NBP1-87311] - Electropherogram image(s) of corresponding Simple Western lane view. PHGDH antibody was used at 1:20 dilution on RT-4 and U-251MG lysate(s).



Publications

Ishida CT, Zhang Y, Bianchetti E et al. Metabolic Reprogramming by Dual Akt/ERK Inhibition Through Imipridones Elicits Unique Vulnerabilities in Glioblastoma. *Clin. Cancer Res.* Jul 23 2018 12:00AM [PMID: 30037819] (WB, Human)

Gina M DeNicola, Pei-Hsuan Chen, Edouard Mullarky et al. NRF2 regulates serine biosynthesis in non-small cell lung cancer. *Nature Genetics* 2015 Oct 19 [PMID: 26482881] (WB, Human)

Mattaini KR, Brignole EJ, Kini M et al. An epitope tag alters phosphoglycerate dehydrogenase structure and impairs ability to support cell proliferation. *Cancer Metab* 2015 [PMID: 25926973] (WB, ICC/IF, Human)

Markkanen E, Fischer R, Ledentcova M et al. Cells deficient in base-excision repair reveal cancer hallmarks originating from adjustments to genetic instability. *Nucleic Acids Res* 2015 Apr 20 [PMID: 25800737] (WB, Human)

Maddocks OD, Berkers CR, Mason SM et al. Serine starvation induces stress and p53-dependent metabolic remodelling in cancer cells. *Nature* 2013 Jan 24 [PMID: 23242140]

Nilsson LM, Forshell TZ, Rimpi S et al. Mouse genetics suggests cell-context dependency for Myc-regulated metabolic enzymes during tumorigenesis. *PLoS Genet* 2012 [PMID: 22438825]

Possemato R, Marks KM, Shaul YD et al. Functional genomics reveal that the serine synthesis pathway is essential in breast cancer. *Nature* 2011 Aug [PMID: 21760589]





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Products Related to NBP1-87311

NBP1-87311PEP	PHGDH Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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