Product Datasheet

PGAM1/2/4 Antibody NB100-774

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-774

PGAM1/2/4 Antibody

Product Information				
Unit Size	0.1 mg			
Concentration	0.5 mg/ml			
Storage	Store at -20C. Avoid freeze-thaw cycles.			
Clonality	Polyclonal			
Preservative	0.02% Sodium Azide			
Isotype	IgG			
Purity	Immunogen affinity purified			
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA			
Target Molecular Weight	29 kDa			
Product Description				
Host	Goat			
Gene ID	5223			
Gene Symbol	PGAM1			
Species	Human, Mouse, Rat, Porcine			
Specificity/Sensitivity	Please note this antibody is expected to recognize the products of 3 highly similar genes.			
Immunogen	Peptide with sequence C-KAMEAVAAQGKAKK, from the C Terminus of the protein sequence according to NP_002620.1; NP_000281.2; NP_001025062.1.			
Product Application Details				
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Peptide ELISA			
Recommended Dilutions	Western Blot 0.05-0.15 ug/ml, Immunocytochemistry/ Immunofluorescence, Peptide ELISA Detection limit 1:28000			
Application Notes	WB: Approx 27kDa band observed in Human Cerebellum and in Human and Mouse Liver lysates, and approx. 28kDa band observed in Rat and Pig Liver lysates (calculated MW of 28.8kDa according to Human NP_002620.1, NP_000281.2, and NP_001025062.1, Mouse NP_075907.2, Rat NP_445742.2 and Pig XP_003483583.1).			

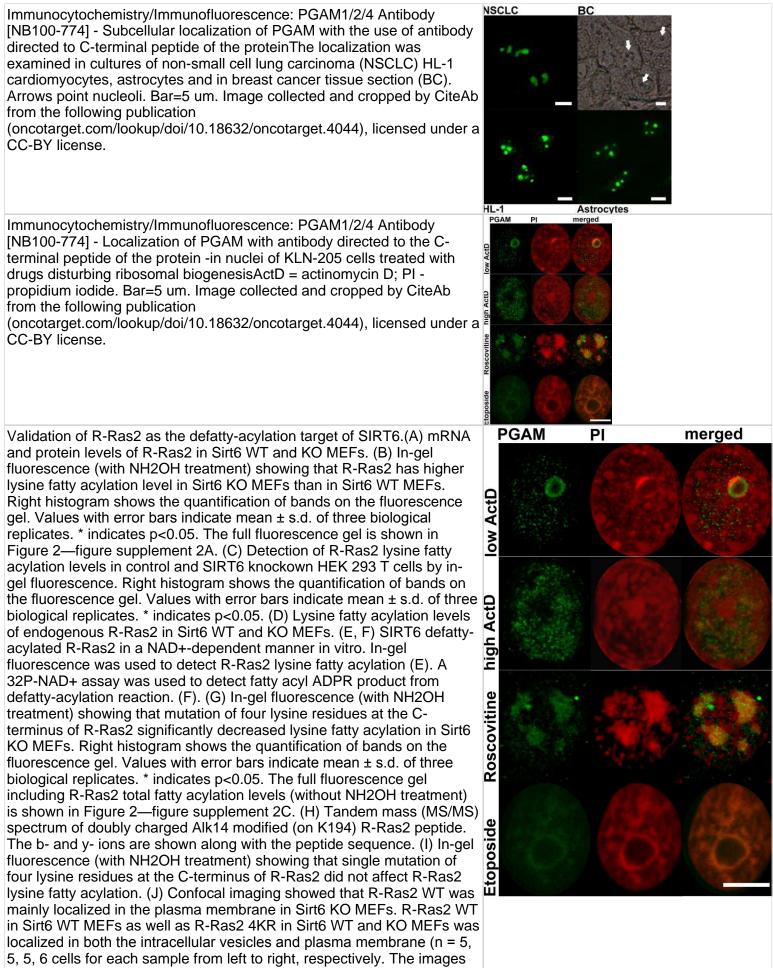
Images

Western Blot: PGAM1/2/4 Antibody [NB100-774] - staining of Mouse (A), Rat (B) and Pig (C) Liver lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

	Α	в	С
250kDa 150kDa			
100kDa			
75kDa			
50kDa			
37kDa			
	-	•	
25kDa			
20kDa			
15kDa			

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of other cells were shown in Figure 2—figure supplement 4A.DOI:https://dx.doi.org/10.7554/eLife.25158.005Scheme showing in-gel fluorescence method with Alk14 metabolic labeling to identify Ras2 as a lysine fatty acylated protein.FLAG-tagged R-Ras2 protein enriched from whole cell lysates by FIAG immunoprecipitation. Alk1 labeled R-Ras2 protein was detected by in-gel fluorescence after incorporating BODIPY (B)-azide using click chemistry.DOI:https://dx.doi.org/10.7554/eLife.25158.006Validation Ras2 as the defatty-acylation target of SIRT6. (A) Full gel image of Ras2 fatty acylation level with or without NH2OH treatment in Sirt6 ' and KO MEFs. (B) Lysine fatty acylation levels of overexpressed R- in Sirt6 WT and KO MEFs. (C) Full gel image of R-Ras2 WT and 4k fatty acylation levels with or without NH2OH treatment in Sirt6 KO M (D) In-gel fluorescence showing lysine fatty acylation level of overexpressed R-Ras2 WT and C199S mutant in HEK 293T cells w SIRT6 knockdown. C, control shRNA. S6, SIRT6 shRNA#1.DOI:https://dx.doi.org/10.7554/eLife.25158.007Total ion chromatogram (TIC), extracted ion chromatogram (XIC) and parent (MS1) of Ak14 modified R-Ras2 peptide.DOI:https://dx.doi.org/10.7554/eLife.25158.008Lysine fatty acylation targets R-Ras2 to plasma membrane.(A) Confocal imaging showing subcellular localization of GFP-tagged R-Ras2 WT and 4K Sirt6 WT and KO MEFs. (B) Subcellular fractionation of R-Ras2 WT 4KR in HEK 293T cells with palmitic acid or TM3 treatment. GAPDH used as the marker of cytosol fraction and Na,K-APTase was used the marker of plasma membrane fraction.DOI:https://dx.doi.org/10.7554/eLife.25158.009 Image colle and cropped by CiteAb from the following open publication (https://elifesciences.org/articles/25158), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	R- n was 4- of R- R- R- WT -Ras2 KR MEFs. //ith MS g R in T and t was as octed
Immunocytochemistry/ Immunofluorescence: PGAM1/2/4 Antibody [NB100-774] - Detection of PGAM in KLN-205 cells with antibodies directed to whole PGAM protein or to C-terminal peptide of PGAMA control conditions (scan parameters in red channel were set to emphasize nucleolar staining with propidium iodide – PI) B. RNase- treated cells. Bar=15 µm. Image collected & cropped by CiteAb from following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.4044) licensed under a CC-BY license. Not internally tested by Novus Biologicals.	n the



Publications

Ritu Chaudhary, Robbert J C Slebos, Feifei Song, Keegan P McCleary-Sharpe, Jude Masannat, Aik Choon Tan, Xuefeng Wang, Nelusha Amaladas, Wenjuan Wu, Gerald E Hall, Jose R Conejo-Garcia, Juan C Hernandez-Prera, Christine H Chung Effects of checkpoint kinase 1 inhibition by prexasertib on the tumor immune microenvironment of head and neck squamous cell carcinoma. Molecular carcinogenesis 2021-03-22 [PMID: 33378592]

Gizak A, McCubrey JA, Rakus D. Cell-to-cell lactate shuttle operates in heart and is important in age-related heart failure Aging (Albany NY) 2020-02-08 [PMID: 32035422]

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Sakoda S, Shanske S, DiMauro S, Schon EA. Isolation of a cDNA encoding the B isozyme of human phosphoglycerate mutase (PGAM) and characterization of the PGAM gene family. J Biol Chem 1988-11-15 [PMID: 2846553]

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Products Related to NB100-774

NB410-28088-1mg	Goat IgG Isotype Control
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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