Product Datasheet

PGC1 alpha Antibody
NB100-60955

Unit Size: 0.1 mg

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

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Reviews: 1 Publications: 10

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Updated 9/9/2025 v.20.1

NB100-60955

PGC1 alpha 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	91 kDa

Product Description

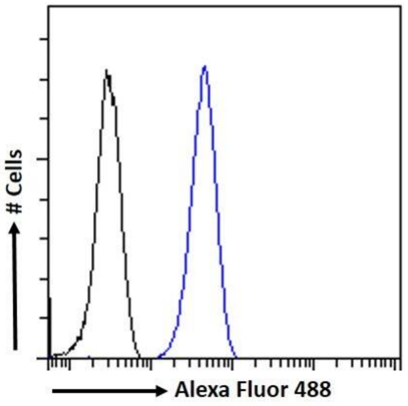
Description	Novus Biologicals Goat PGC1 alpha Antibody (NB100-60955) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-PGC1 alpha Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	10891
Gene Symbol	PPARGC1A
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29020797).
Immunogen	Peptide with sequence C-DGLFDDSEDESDK, from the internal region of the protein sequence according to NP_037393.1; NP_001317680.1; NP_001317681.1; NP_001317682.1; NP_001341756.1.

Product Application Details

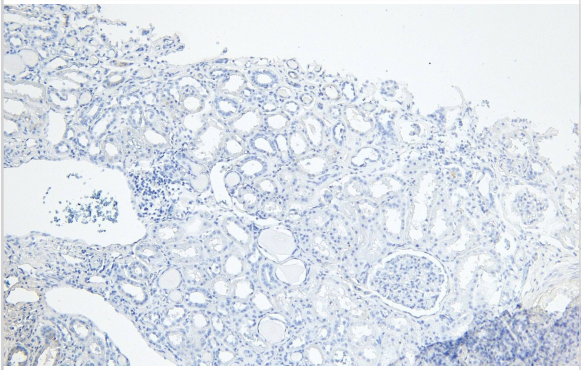
Applications	Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Flow Cytometry 10 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/uL, Immunohistochemistry-Paraffin 6-8 ug/ml, Peptide ELISA Detection limit 1:2000
Application Notes	Use in IHC-P reported in scientific literature (PMID: 23763823). Use in IHC reported in scientific literature (PMID: 22227854).

Images

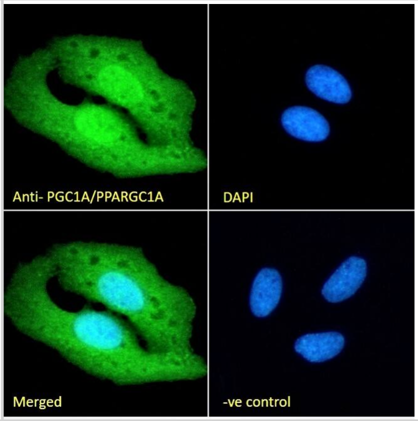
Flow Cytometry: PGC1 alpha Antibody [NB100-60955] - Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



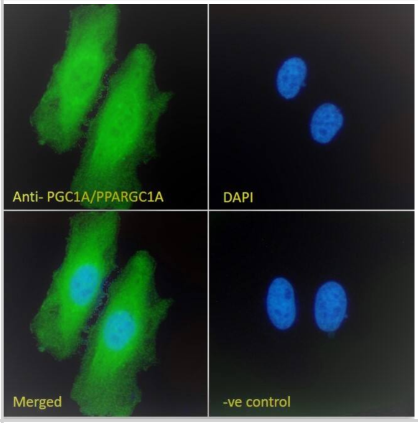
Immunohistochemistry-Paraffin: PGC1 alpha Antibody [NB100-60955] - Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.



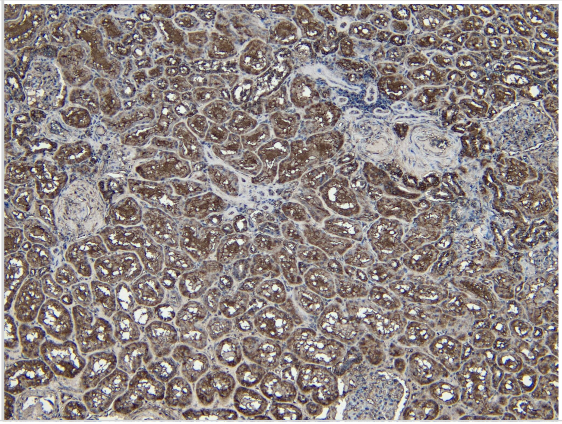
Immunocytochemistry/Immunofluorescence: PGC1 alpha Antibody [NB100-60955] - Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



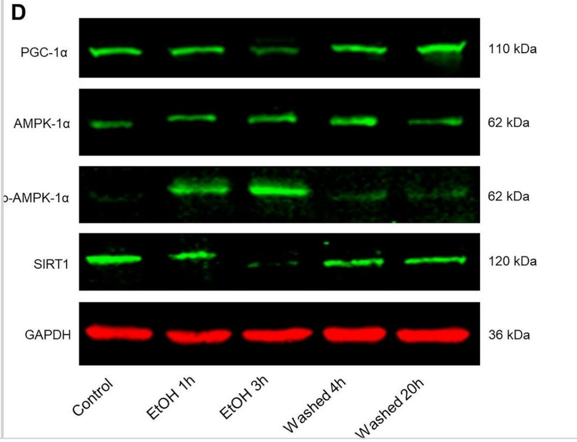
Immunocytochemistry/Immunofluorescence: PGC1 alpha Antibody [NB100-60955] - Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Immunohistochemistry-Paraffin: PGC1 alpha Antibody [NB100-60955] - (6ug/ml) staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Changes in PGC-1α mediated mitochondrial biogenesis in the process of cellular degeneration and recovery.A–C mRNA expression of PGC-1α, AMPK-1α, SIRT1 in neuronal PC12 cells measured by qPCR. Data are presented as mean +/- SEM. *$P < 0.05$, **$P < 0.01$, vs. control group; ##$P < 0.01$, ####$P < 0.0001$, vs. EtOH 3 h group. D–H Protein expression of PGC-1α, AMPK-1α, p-AMPK-1α, and SIRT1 in neuronal PC12 cells detected by western blot. Data are presented as mean +/- SEM. *$P < 0.05$, **$P < 0.01$, ***$P < 0.001$, ****$P < 0.0001$, vs. control group; #$P < 0.05$, ##$P < 0.01$, ###$P < 0.001$, ####$P < 0.0001$, vs. EtOH 3 h group. EtOH ethanol. Image collected and cropped by CiteAb from the following open publication (https://www.nature.com/articles/s41420-024-01953-0), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Hung SY, Chen JL, Tu YK et Al. Isoliquiritigenin inhibits apoptosis and ameliorates oxidative stress in rheumatoid arthritis chondrocytes through the Nrf2/HO-1-mediated pathway Biomed Pharmacother 2023-12-12 [PMID: 38091640]

Wenting You, Kèvin Knoops, Tos T. J. M. Berendschot, Birke J. Benedikter, Carroll A. B. Webers, Chris P. M. Reutelingsperger, Theo G. M. F. Gorgels PGC-1a mediated mitochondrial biogenesis promotes recovery and survival of neuronal cells from cellular degeneration Cell Death Discovery 2024-04-17 [PMID: 38632223]

Park C, LIM J, Kim Y et al. Targeting Bone Marrow Lipid Metabolism with Adiponectin Receptor Agonist for Diabetic and Postmenopausal Osteoporosis Research Square 2023-09-27 (Western Blot, Mouse)

Cho Jh, Lee S, Jeon H et Al. Tetrabromobisphenol A-Induced Apoptosis in Neural Stem Cells Through Oxidative Stress and Mitochondrial Dysfunction Neurotox Res 2020-02-27 [PMID: 32108298]

Zhang W, Zhong W, Sun Q et al. Adipose-specific lipin1 overexpression in mice protects against alcohol-induced liver injury. Sci Rep 2018-01-11 [PMID: 29323242] (WB, Mouse)

Hong YA, Lim JH, Kim MY et al. Extracellular Superoxide Dismutase Attenuates Renal Oxidative Stress through the Activation of AMPK in Diabetic Nephropathy. Antioxid. Redox Signal. 2017-10-12 [PMID: 29020797] (Mouse)

Handschin C, Kobayashi YM, Chin S et al. PGC-1alpha regulates the neuromuscular junction program and ameliorates Duchenne muscular dystrophy. Genes Dev 2007-04-01 [PMID: 17403779]

Camacho A, Huang JK, Delint-Ramirez I et al. Peroxisome proliferator-activated receptor gamma-coactivator-1 alpha coordinates sphingolipid metabolism, lipid raft composition and myelin protein synthesis. Eur J Neurosci 2013-06-14 [PMID: 23763823] (IHC-P, Mouse)

Wang B, Hsu S, Frankel W, Ghoshal K, Jacob ST. Stat3-mediated activation of miR-23a suppresses gluconeogenesis in hepatocellular carcinoma by downregulating G6PC and PGC-1?. Hepatology. doi: 10.1002/hep.25632. 2012-02-09 [PMID: 22318941]

Yuan Y, Guo-Qing P, Yan T, Hong-Lin Y, Gong-Hua H, Cai-Gao Z. A study of PKM2, PFK-1, and ANT1 expressions in cervical biopsy tissues in China. Med Oncol. 2012-01-08 [PMID: 22227854] (IF/IHC, WB, Human)

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Products Related to NB100-60955

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
H00010891-Q01-10ug	Recombinant Human PGC1 alpha GST (N-Term) Protein

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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