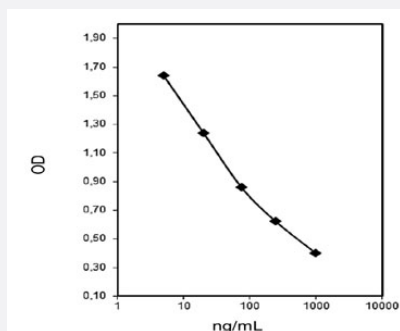


Norepinephrine ELISA Kit

Catalog # KA1891 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	Norepinephrine ELISA Kit is an enzyme immunoassay for the quantitative determination of Norepinephrine in plasma and urine.
Suitable Sample	Plasma, Urine, Serum
Sample Volume	20 uL (extracted samples)
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	2.5 to 1000 ng/mL urine, 93 to 33,333 pg/mL plasma
Limit of Detection	1.7 ng/mL in urine, 36 pg/mL in plasma
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Publication Reference

- [Secretin-dependent signals in the ventromedial hypothalamus regulate energy metabolism and bone homeostasis in mice.](#)

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Nature Communications 2024 Feb; 15(1):1030.

Application: Quant, Mouse, Blood

- [Sympathetic Reinnervation of Intact and Upper Follicle Xenografts into BALB/c-nu/nu Mice.](#)

Xiu-Wen Chen, Na Ni, Xiao-Jun Xie, Ying-Lin Zhao, Wen-Zi Liang, Yu-Xin Huang, Chang-Min Lin.

Life (Basel, Switzerland) 2023 Nov; 13(11):2163.

Application: Quant, Rat, Mice, Hair follicles

- [Interstitial-fluid shear stresses induced by vertically oscillating head motion lower blood pressure in hypertensive rats and humans.](#)

Shuhei Murase, Naoyoshi Sakitani, Takahiro Maekawa, Daisuke Yoshino, Kouji Takano, Ayumu Konno, Hirokazu Hirai, Taku Saito, Sakae Tanaka, Keisuke Shinohara, Takuya Kishi, Yuki Yoshikawa, Takamasa Sakai, Makoto Ayaori, Hirohiko Inanami, Koji Tomiyasu, Atsushi Takashima, Toru Ogata, Hirotsugu Tsuchimochi, Shinya Sato, Shigeyoshi Saito, Kohzoh Yoshino, Yuiko Matsuura, Kenichi Funamoto, Hiroki Ochi, Masahiro Shinohara, Motoshi Nagao, Yasuhiro Sawada.

Nature Biomedical Engineering 2023 Jul; [Epub].

Application: ELISA, Rat, Rat urine

- [Adipose-targeted triiodothyronine therapy counteracts obesity-related metabolic complications and atherosclerosis with negligible side effects.](#)

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Nature Communications 2022 Dec; 13(1):7838.

Application: Quant, Mouse, Mouse serum

- [Divergent neurocircuitry dissociates two components of the stress response: glucose mobilization and anxiety-like behavior.](#)

Xianglian Jia, Shanping Chen, Xulin Li, Sijue Tao, Juan Lai, Haoran Liu, Kang Huang, Ye Tian, Pengfei Wei, Fan Yang, Zhonghua Lu, Zuxin Chen, Xin-An Liu, Fuqiang Xu, Liping Wang.

Cell Reports 2022 Nov; 41(6):111586.

Application: Quant, Mouse, Mouse serum

- [Unravelling the sex-specific diversity and functions of adrenal gland macrophages.](#)

Bastien Dolfi, Alexandre Gallerand, Maria M Firulyova, Yingzheng Xu, Johanna Merlin, Adélie Dumont, Alexia Castiglione, Nathalie Vaillant, Sandrine Quemener, Heidi Gerke, Marion I Stunault, Patricia R Schrank, Seung-Hyeon Kim, Alisha Zhu, Jie Ding, Jerome Gilleron, Virginie Magnone, Pascal Barbry, David Dombrowicz, Christophe Duranton, Abdelilah Wakkach, Claudine Blin-Wakkach, Burkhard Becher, Sophie Pagnotta, Rafael J Argüello, Pia Rantakari, Svetoslav Chakarov, Florent Ginhoux, Konstantin Zait

Cell Reports 2022 Jun; 39(11):110949.

Application: Quant, Mouse, Adrenal gland macrophage culture supernatant

- [Differing impact of phosphoglycerate mutase 1-deficiency on brown and white adipose tissue.](#)

Yohko Yoshida, Ippei Shimizu, Yung-Ting Hsiao, Masayoshi Suda, Goro Katsuumi, Masahide Seki, Yutaka Suzuki, Shujiro Okuda, Tomoyoshi Soga, Tohru Minamino.

iScience 2022 Apr; 25(5):104268.

Application: Quant, Mouse, Mouse gonadal white adipose tissue, plasma

- [Associations of neurotransmitters and the gut microbiome with emotional distress in mixed type of irritable bowel syndrome.](#)

Zahra A Barandouzi, Joochul Lee, Maria Del Carmen Rosas, Jie Chen, Wendy A Henderson, Angela R Starkweather, Xiaomei S Cong.

Scientific Reports 2022 Jan; 12(1):1648.

Application: Quant, Human, Human plasma

- [Glypican 1 and syndecan 1 differently regulate noradrenergic hypertension development: focus on IP3R and calcium.](#)

Simone R Potje, Ayman Isbatan, Rita C Tostes, Lusiane M Bendhack, Randal O Dull, Joao L Carvalho-de-Souza, Andreia Z Chignalia.

Pharmacological Research 2021 Oct; 172:105813.

Application: Quant, Mouse, Mouse plasma

- [Photobiomodulation prevents PTSD-like memory impairments in rats.](#)

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Molecular Psychiatry 2021 Apr; 26(11):6666.

Application: Quant, Rat, Rat hippocampus, Rat plasma

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Xi-Rong Xu, Qian Xiao, Yu-Chuan Hong, Yun-Hui Liu, Yue Liu, Jie Tu.

CNS Neuroscience & Therapeutics 2021 Feb; 27(2):206.

Application: Quant, Mouse, Mouse serum

- [Effect of virtual reality-simulated exercise on sympathovagal balance.](#)

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PLoS One 2020 Jul; 15(7):e0235792.

Application: Quant, Human, Human serum

- [Cell Types Promoting Goosebumps Form a Niche to Regulate Hair Follicle Stem Cells.](#)

Yulia Shwartz, Meryem Gonzalez-Celeiro, Chih-Lung Chen, H Amalia Pasolli, Shu-Hsien Sheu, Sabrina Mai-Yi Fan, Farnaz Shamsi, Steven Assaad, Edrick Tai-Yu Lin, Bing Zhang, Pai-Chi Tsai, Megan He, Yu-Hua Tseng, Sung-Jan Lin, Ya-Chieh Hsu.

Cell 2020 Jul; S0092-8674(20)30808-4.

Application: Quant, Mouse, Plasma, Skin

- [Electrical Stimulation of the Infraorbital Nerve Induces Diving Reflex in a Dose-Controlled Manner.](#)

Kevin A Shah, Anup N Sonti, Yi-Chen Wu, Keren Powell, Mohini Doobay, Raj K Narayan, Chunyan Li.

Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engine 2020 Jul; 2020:5208.

Application: Quant, Rat, Rat plasma

- [Acute changes in the retina and central retinal artery with methamphetamine.](#)

Lee M, Leskova W, Eshaq RS, Harris NR.

Experimental Eye Research 2020 Feb; 193:107964.

Application: Quant, Mouse, Plasma

- [Increased fibroblast growth factor-21 in chronic kidney disease is a trade-off between survival benefit and blood pressure dysregulation.](#)

Nakano T, Shiizaki K, Miura Y, Matsui M, Kosaki K, Mori S, Yamagata K, Maeda S, Kishi T, Usui N, Yoshida M, Onaka T, Mizukami H, Kaneda R, Karasawa K, Nitta K, Kurosu H, Kuro-O M.

Scientific Reports 2019 Dec; 9(1):19247.

Application: ELISA, Mouse, Mouse plasma

- [PGRMC2 is an intracellular haem chaperone critical for adipocyte function.](#)

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Nature 2019 Dec; 576(7785):138.

Application: Quant, Mouse, Mouse plasma

- [Age-Related Dopaminergic Innervation Augments T Helper 2-Type Allergic Inflammation in the Postnatal Lung.](#)

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Immunity 2019 Dec; 51(6):1102.

Application: Quant, Mouse, Mouse lungs

- [Effects of low-dose oleuropein diet supplementation on the oxidative status of skeletal muscles and plasma hormonal concentration of growing broiler chickens.](#)

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British Poultry Science 2019 Dec; 60(6):784.

Application: ELISA, Chicken, Plasma

- [Mediation of the Acute Stress Response by the Skeleton.](#)

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Cell Metabolism 2019 Nov; 30(5):890.

Application: ELISA, Mouse, Rat, Serum

- [Regional Cerebral Activation Accompanies Sympathoexcitation in Women With Polycystic Ovary Syndrome.](#)

Lansdown AJ, Warnert EAH, Sverrisdóttir Y, Wise RG, Rees DA.

The Journal of Clinical Endocrinology and Metabolism 2019 Sep; 104(9):3614.

Application: ELISA, Human, Plasma

- [Bone marrow sympathetic activation regulates post-myocardial infarction megakaryocyte expansion but not platelet production.](#)

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Biochemical and Biophysical Research Communications 2019 May; 513(1):99.

Application: ELISA, Mouse, Serum

- [Activation of Angiogenic Circuits Instigates Resistance to Diet-Induced Obesity via Increased Energy Expenditure.](#)

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Application: Quant, Mouse, Mouse plasma

- [Neonatal Maternal Deprivation Followed by Adult Stress Enhances Adrenergic Signaling to Advance Visceral Hypersensitivity.](#)

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Application: Quant, Rat, Rat plasma

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Application: Quant, Human, Human plasma

- [Focal selective chemo-ablation of spinal cardiac afferent nerve by resiniferatoxin protects the heart from pressure overload-induced hypertrophy.](#)

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Application: Quant, Rat, Rat hearts, Plasma

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Cell Reports 2018 Sep; 24(11):2827.

Application: ELISA, Mouse, Brown adipose tissue extracted

- [External light activates hair follicle stem cells through eyes via an ipRGC-SCN-sympathetic neural pathway.](#)

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Application: Quant, Mouse, Mouse skin specimen

- [The Cholinergic and Adrenergic Autocrine Signaling Pathway Mediates Immunomodulation in Oyster Crassostrea gigas.](#)

Liu Z, Wang L, Lv Z, Zhou Z, Wang W, Li M, Yi Q, Qiu L, Song L.

Frontiers in Immunology 2018 Feb; 9:284.

Application: Quant, Oyster, Oyster Hemocytes

- [Melatonin ameliorates intrarenal renin-angiotensin system in a 5/6 nephrectomy rat model.](#)

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Clinical and Experimental Nephrology 2017 Nov; [Epub].

Application: Quant, Rat, Rat kidney

- [Noradrenaline, Serotonin, GABA, and Glycine in Cerebrospinal Fluid during Labor Pain: A Cross-Sectional Prospective Study.](#)

Chalermkitpanit P, Thonnagith A, Engsusophon P, Charuluxananan S, Honsawek S.

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Application: Quant, Human, Cerebrospinal fluid from pregnant women

- [Post-Effect of Air Quality Improvement on Biomarkers for Systemic Inflammation and Microparticles in Asthma Patients After the 2008 Beijing Olympic Games: a Pilot Study.](#)

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Amino Acids 2017 Aug; 40(4):1214.

Application: Quant, Human, Plasma from asthma patients

- [Modulation of Experimental Arthritis by Vagal Sensory and Central Brain Stimulation.](#)

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Application: Quant, Rat, Rat knee

- [The neuroendocrine immunomodulatory axis-like pathway mediated by circulating haemocytes in pacific oyster Crassostrea gigas.](#)

Liu Z, Zhou Z, Jiang Q, Wang L, Yi Q, Qiu L, Song L.

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Application: Quant, Oysters C. gigas, Oyster haemolymph

- [Effects of agmatine on secretion of interferon tau and catecholamines and expression of genes related to production of polyamines by ovine trophectoderm cells.](#)

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Application: Quan, Sheep, oTr1 cell

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Stem Cells Translational Medicine 2015 Nov; 5(1):33.

Application: Quant, Rat, Rat serum

- [Toll-like receptor 4 promotes autonomic dysfunction, inflammation and microglia activation in the hypothalamic paraventricular nucleus: role of endoplasmic reticulum stress.](#)

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Application: ELISA, Rat, Plasma

- [Mutual modulation between norepinephrine and nitric oxide in haemocytes during the mollusc immune response.](#)

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Scientific Reports 2014 Nov; 4:6963.

Application: ELISA, C. farreri, Haemocyte lysates

- [Experimental coronary artery stenosis accelerates kidney damage in renovascular hypertensive swine.](#)

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Kidney International 2015 Apr; 87(4):719.

Application: ELISA, Pig, Plasma

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Cell 2014 Oct; 159(2):306.

Application: ELISA, Mouse, Serum

- [Central blockade of TLR4 improves cardiac function and attenuates myocardial inflammation in angiotensin II-induced hypertension.](#)

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Application: ELISA, Rat, Plasma

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Environmental Health Perspectives 2014 Jan; 122(1):79.

Application: ELISA, Mouse, Urine