Norepinephrine ELISA Kit

Catalog # KA3836 Size 1 Kit

Specification

Product Description	Norepinephrine ELISA Kit is an enzyme immunoassay (ELISA) for the quantitative and ultra-sensitive determination of noradrenaline (norepinephrine) in any species and various biological samples.
Suitable Sample	Biological Fluid
Sample Volume	1-750 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.2 to 32 ng/mL
Limit of Detection	0.1 ng/mL x C* C* = Correction factor
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Publication Reference

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- Neurobiology of co-morbid stress and a western diet in mice: mitochondrial, proteomic and behavioral outcomes.

  Tessa Helman, Makayla Nicholas, Brock Lyon, Saba Naghipour, Chul-Kyu Kim, Trissha Ybanez, Kai Robertson, Tia A Griffith, Jason N Peart, Nicolas J C Stapelberg, John P Headrick, Eugene F Du Toit.

  Metabolic Brain Disease 2026 Apr; 41(1):94.

  Application: ELISA, Quant, Mice, Blood

- Sympathetic-epithelial crosstalk governs tissue-resident memory T cell immunosurveillance in the skin.

  Peng Zhang, Juju Miao, Haoyue Yu, Hualin Yu, Chao Liu, Luming Zhao, Ping Yang, Ting Zhou, Bing Zhang.

  Cell 2026 Mar; 189(5):1323.

  Application: ELISA, Quant, Mice, Skin tissue

- Individual and Comorbid Influences of Chronic Stress and a Western Diet on Allostatic Loads and Cardiac Resilience, Adaptation and Proteome Profiles in Male Mice.

  Makayla Nicholas, Tessa Helman, Brock Lyon, Saba Naghipour, Trissha Ybanez, Joshua T Ingles, Chulkyu Kim, Nicolas J C Stapelberg, Jason N Peart, John P Headrick, Eugene F du Toit.

  Comprehensive Physiology 2025 Oct; 15(5):e70045.

  Application: Quant, Human, Serum

- A gatekeeper sympathetic control of lacrimal tear secretion and dry eye onset through the NA-Adra1a-Ucp2 pathway.

  Mingli Qu, Qun Wang, Xiaofei Bai, Jing Feng, Sai Zhang, Yangyang Zhang, Qing Chen, Hai Zhu, Hengrui Zhang, Qunqin Guo, Bin Zhang, Shengqian Dou, Yujie Qiao, Hongwei Wang, Yihai Cao, Lixin Xie, Qingjun Zhou.

  Nature Communications 2025 Jun; 16(1):5215.

  Application: ELISA, Quant, Mice, Lacrimal gland and plasma

- Activation of Sympathetic Nervous System Drives Dry Eye Onset Via Norepinephrine-β2-Adrenergic Receptor Signaling in Mice.

  Mingli Qu, Xiaofei Bai, Mengyao Zhang, Jingyi Wu, Lei Wan, Xiaoyu Li, Qun Wang, Lin Cong, Benxiang Qi, Qingjun Zhou.

  Investigative Ophthalmology & Visual Science 2025 Jun; 66(6):13.

  Application: ELISA, Quant, Mice, The cornea or conjunctiva tissues of four eyes

- GzESTY as an optimized cell-based assay for initial steps in GPCR deorphanization.

  Luca Franchini, Joseph J Porter, John D Lueck, Cesare Orlandi

  Nature communications 2025 May; 16(1):4521.

  Application: Quant, Mouse, Brain

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- Astrocyte Loss Augments Body Weight Through Reduction in Adipose Sympathetic Outflows.

  Dan Chen., Yale Y Yang., Yunlei Yang.

  Glia 2025 May; 73(5):1068.

- Sex-specific impact of psychosocial stress on hematopoiesis and blood leukocytes.

  Bastien Dolfi, Alexandre Gallerand, Zakariya Caillot, Alexia Castiglione, Fairouz N Zair, Lorlana Leporati, Margaux Giacchero, Eloise Goes, Axelle Strazzulla, David Dombrowicz, Rodolphe R Guinamard, Adeline Bertola, Stoyan Ivanov

  Eur J Immunol 2024 Aug; 54(8):e2350851.

- Dopamine β-hydroxylase shapes intestinal inflammation through modulating T cell activation.

  Qiaoling Sun, Heng Li, Jing Lv, Weilin Shi, Yanfeng Bai, Ke Pan, Alice Chen.

  Cellular immunology 2024 Jul; 401:104839.

  Application: Quant, Mouse, Plasma, colon, mesenteric lymph nodes(MLN)

- Hyperglycemia induces tear reduction and dry eye in diabetic mice through the norepinephrine-α1AR - mitochondrial impairment axis of lacrimal gland.

  Sai Zhang, Qun Wang, Mingli Qu, Qing Chen, Xiaofei Bai, Zhenzhen Zhang, Qingjun Zhou, Lixin Xie.

  The American Journal of Pathology 2023 Jul; 193(7):913.

  Application: ELISA, Mouse, Mouse lacrimal gland

- The effect of various breath-hold techniques on the cardiorespiratory response to facial immersion in humans.

  Matthew J Burley, Jamie Blackwell, Bert Bond, Craig Williams, Francis B Stephens.

  Experimental Physiology 2023 Jan; 108(1):50.

  Application: Quant, Human, Human plasma

- Impact of Neurons on Patient-Derived Cardiomyocytes Using Organ-On-A-Chip and iPSC Biotechnologies.

  Albin A Bernardin, Sarah Colombani, Antoine Rousselot, Virginie Andry, Yannick Goumon, Helene Delanoe-Ayari, Come Pasqualin, Bernard Brugg, Etienne D Jacotot, Jean-Luc Pasquie, Alain Lacampagne, Albano C Meli

  Cells 2022 Nov; 11(23):0.

- Ventromedial hypothalamic OGT drives adipose tissue lipolysis and curbs obesity.

  Qi Wang, Bichen Zhang, Bernardo Stutz, Zhong-Wu Liu, Tamas L Horvath, Xiaoyong Yang.

  Sci Adv. 2022 Sep; 8(35):eabn8092.

  Application: ELISA, Mice, Serum of C57BL/6J mice

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- Central and cardiac stress resilience consistently linked to integrated immuno-neuroendocrine responses across stress models in male mice.

  Tessa J Helman, John P Headrick, Jason N Peart, Nicolas J C Stapelberg

  Eur J Neurosci 2022 Aug; 56(4):4333-4362.

- Inhibiting α1-adrenergic receptor signaling pathway ameliorates AD-type pathologies and behavioral deficits in APPswe/PS1 mouse model.

  Zhong-yuan Yu, Xu Yi, Ye-Ran Wang, Gui-Hua Zeng, Cheng-Rong Tan, Yuan Cheng, Pu-Yang Sun, Zhi-Hao Liu, Yan-Jiang Wang, Yu-Hui Liu

  J Neurochem 2022 May; 161(3):293-307.

- Heart neurons use clock genes to control myocyte proliferation.

  Emmanouil Tampakakis, Harshi Gangrade, Stephanie Glavaris, Myo Htet, Sean Murphy, Brian Leei Lin, Ting Liu, Amir Saberi, Matthew Miyamoto, William Kowalski, Yoh-Suke Mukouyama, Gabsang Lee, Liliana Minichiello, Chulan Kwon.

  Science Advances 2021 Dec; 7(49):eabh4181.

  Application: Quant, Mouse, Mouse heart

- Immediate Renal Denervation After Acute Myocardial Infarction Mitigates the Progression of Heart Failure via the Modulation of IL-33/ST2 Signaling.

  Han Chen, Rui Wang, Quan Li, Jiasheng Yin, Zhenyi Ge, Fei Xu, Tongtong Zang, Zhiqiang Pei, Chaofu Li, Li Shen, Junbo Ge

  Front Cardiovasc Med 2021 Oct; 8:746934.

- ADORA 1-driven brain-sympathetic neuro-adipose connections control body weight and adipose lipid metabolism.

  Jia Zhang, Yanjun Hou, Xue-Liang Du, Dan Chen, Guangzhi Sui, Yong Qi, Julio Licinio, Ma-Li Wong, Yunlei Yang.

  Molecular Psychiatry 2021 Jul; 26(7):2805.

  Application: Quant, Mouse, Mouse adipose tissues

- Plasma Neprilysin Displays No Relevant Association With Neurohumoral Activation in Chronic HFrEF.

  Suriya Prausmuller, Henrike Arfsten, Georg Spinka, Claudia Freitag, Philipp E Bartko, Georg Goliasch, Guido Strunk, Noemi Pavo, Martin Hulsmann

  J Am Heart Assoc 2020 Jun; 9(11):e015071.

- Dapagliflozin improves left ventricular remodeling and aorta sympathetic tone in a pig model of heart failure with preserved ejection fraction.

  Zhang N, Feng B, Ma X, Sun K, Xu G, Zhou Y.

  Cardiovascular Diabetology 2019 Aug; 18(1):107.

  Application: Quant, Pig, Aorta, Kidney, Left atrium, Left ventricle

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- Repeated cell transplantation and adjunct renal denervation in ischemic heart failure: exploring modalities for improving cell therapy efficacy.

  Polhemus DJ, Trivedi RK, Sharp TE, Li Z, Goodchild TT, Scarborough A, de Couto G, Marbán E, Lefer DJ.

  Basic Research in Cardiology 2019 Jan; 114(2):9.

  Application: Quant, Rat, Rat kidney

- Hydrogen Sulfide Attenuates Renin Angiotensin and Aldosterone Pathological Signaling to Preserve Kidney Function and Improve Exercise Tolerance in Heart Failure.

  Li Z, Organ CL, Kang J, Polhemus DJ, Trivedi RK, Sharp TE 3rd, Jenkins JS, Tao YX, Xian M, Lefer DJ.

  JACC Basic to Translational Science 2018 Dec; 3(6):796.

  Application: Quant, Mouse, Mouse kidney

- Activation of hypothalamic RIP-Cre neurons promotes beiging of WAT via sympathetic nervous system.

  Wang B, Li A, Li X, Ho PW, Wu D, Wang X, Liu Z, Wu KK, Yau SS, Xu A, Cheng KK.

  EMBO reports 2018 Apr; 19(4):e44977.

  Application: ELISA, Mouse, Adipose tissues, livers, kidneys tissue lysate

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