

# ACTH (Mouse/Rat) ELISA Kit

Catalog # KA0917

Size 1 Kit

## Specification

|                            |                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | ACTH (Mouse/Rat) ELISA Kit (Chemilunescence) is an ultra sensitive method (Less than 1 pg/mL) used for the quantitative determination of ACTH (Adrenocorticotrophic Hormone) in mouse/rat plasma . |
| <b>Suitable Sample</b>     | Plasma                                                                                                                                                                                             |
| <b>Sample Volume</b>       | 200 uL                                                                                                                                                                                             |
| <b>Label</b>               | Biotin-conjugate                                                                                                                                                                                   |
| <b>Detection Method</b>    | Chemiluminescence                                                                                                                                                                                  |
| <b>Assay Type</b>          | Quantitative                                                                                                                                                                                       |
| <b>Calibration Range</b>   | 7 to 515 pg/mL                                                                                                                                                                                     |
| <b>Reactivity</b>          | Mouse, Rat                                                                                                                                                                                         |
| <b>Regulation Status</b>   | For research use only (RUO)                                                                                                                                                                        |
| <b>Storage Instruction</b> | Store the kit at 4°C.                                                                                                                                                                              |

## Applications

- Quantification

## Gene Info — Pomc

|                      |                                                                   |
|----------------------|-------------------------------------------------------------------|
| <b>Entrez GeneID</b> | <a href="#">18976</a>                                             |
| <b>Gene Name</b>     | Pomc                                                              |
| <b>Gene Alias</b>    | ACTH, BE, Pomc-1, Pomc1, alpha-MSH, alphaMSH, beta-MSH, gamma-MSH |

|                    |                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Description   | pro-opiomelanocortin-alpha                                                                                                                                 |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                  |
| Other Designations | adrenal corticotropic hormone alpha-melanocyte stimulating hormone beta-endorphin beta-melanocyte stimulating hormone gamma-melanocyte stimulating hormone |

## Gene Info — Pomc

|                    |                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">24664</a>                                                                                                                                                                                                                                           |
| Gene Name          | Pomc                                                                                                                                                                                                                                                            |
| Gene Alias         | Pomc1, Pomc2                                                                                                                                                                                                                                                    |
| Gene Description   | proopiomelanocortin                                                                                                                                                                                                                                             |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                       |
| Gene Summary       | beta (endorphin                                                                                                                                                                                                                                                 |
| Other Designations | pro-opiomelanocortin pro-opiomelanocortin-alpha proopiomelanocortin (adrenocorticotropin/ beta-lipotropin/ alpha-melanocyte stimulating hormone/ beta-melanocyte stimulating hormone/ beta-endorphin) proopiomelanocortin, beta (endorphin, beta) proopiomelano |

## Publication Reference

- [Fatty acid desaturase 2 determines the lipidomic landscape and steroidogenic function of the adrenal gland.](#)

Anke Witt, Ivona Mateska, Alessandra Palladini, Anupam Sinha, Michele Wölk, Akiko Harauma, Nicole Bechmann, Christina Pamporaki, Andreas Dahl, Michael Rothe, Irakli Kopaliani, Christian Adolf, Anna Riester, Ben Wielockx, Stefan R Bornstein, Matthias Kroiss, Mirko Peitzsch, Toru Moriguchi, Maria Fedorova, Michal Grzybek, Triantafyllos Chavakis, Peter Mirtschink, Vasileia Ismini Alexaki.

Science Advances 2023 Jul; 9(29):eadf6710.

Application: Quant, Mouse, Mouse plasma

- [Stress-glucocorticoid-TSC22D3 axis compromises therapy-induced antitumor immunity.](#)

Yang H, Xia L, Chen J, Zhang S, Martin V, Li Q, Lin S, Chen J, Calmette J, Lu M, Fu L, Yang J, Pan Z, Yu K, He J, Morand E, Schlecht-Louf G, Krzysiek R, Zitvogel L, Kang B, Zhang Z, Leader A, Zhou P, Lanfumey L, Shi M, Kroemer G, Ma Y.

Nature Medicine 2019 Sep; 25(9):1428.

Application: ELISA, Human, Mouse, Plasma

- [FTO affects hippocampal function by regulation of BDNF processing.](#)

Spychala A, R  ther U.

PLoS One 2019 Feb; 14(2):e0211937.

Application: Quant, Mouse, Mouse plasma

- [Adenosine stimulates hepatic glycogenolysis via adrenal glands-liver crosstalk in mice.](#)

Tadaishi M, Toriba Y, Shimizu M, Kobayashi-Hattori K.

PLoS One 2018 Dec; 13(12):e0209647.

Application: Quant, Mouse, Mouse plasma

- [Neonatal overfeeding disrupts pituitary ghrelin signalling in female rats long-term; Implications for the stress response.](#)

Sominsky L, Ziko I, Spencer SJ.

PLoS One 2017 Mar; 12(3):e0173498.

Application: Quant, Rat, Rat plasma

- [Tris-\(2,3-Dibromopropyl\) Isocyanurate, a New Emerging Pollutant, Impairs Cognition and Provokes Depression-Like Behaviors in Adult Rats.](#)

Ye L, Hu Z, Wang H, Zhu H, Dong Z, Jiang W, Zhao H, Li N, Mi W, Wang W, Hu X.

PloS One 2015 Oct; 10(10):e0140281.

Application: ELISA, Rat, Plasma

- [Vitamin D3 May Ameliorate the Ketoconazole Induced Adrenal Injury: Histological and Immunohistochemical Studies on Albino Rats.](#)

Khalil MS.

Acta Histochemica et Cytochemica 2015 Aug; 48(4):103.

Application: ELISA, Rat, Plasma

- [Reduced  \$\alpha\$ -MSH Underlies Hypothalamic ER-Stress-Induced Hepatic Gluconeogenesis.](#)

Schneeberger M, G  mez-Valad  s AG, Altirriba J, Sebasti  n D, Ram  rez S, Garcia A, Esteban Y, Drougard A, Ferr  s-Coy A, Bortolozzi A, Garcia-Roves PM, Jones JG, Manadas B, Zorzano A, Gomis R, Claret M.

Cell Reports 2015 Jul; 12(3):361.

Application: ELISA, Mouse, Plasma

- [Neuronal redox imbalance results in altered energy homeostasis and early postnatal lethality.](#)

Maity-Kumar G, Thal DR, Baumann B, Scharffetter-Kochanek K, Wirth T.

FASEB Journal 2015 Jul; 29(7):2843.

Application: ELISA, Mouse, Plasma

- [Changes in morphology and function of adrenal cortex in mice fed a high-fat diet.](#)

Swierczynska MM, Mateska I, Peitzsch M, Bornstein SR, Chavakis T, Eisenhofer G, Lamounier-Zepter V, Eaton S.  
International Journal of Obesity 2015 Feb; 39(2):321.

Application: ELISA, Mouse, Plasma