# B2M (Human) ELISA Kit

Catalog # KA1045 Size 1 Kit

## Specification

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| **Product Description** | B2M (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human B2M. |
| **Suitable Sample** | Cell Culture Samples, CSF, Milk, Plasma, Saliva, Serum, Urine |
| **Sample Volume** | 50 uL |
| **Label** | Peroxidase-conjugated |
| **Detection Method** | Colorimetric |
| **Assay Type** | Quantitative |
| **Calibration Range** | 0.049 to 50 ng/mL |
| **Reactivity** | Human |
| **Regulation Status** | For research use only (RUO) |
| **Storage Instruction** | Store components of the kit at 4°C or -20°C as described in the protocol. |

## Applications

- Quantification

## Gene Info — B2M

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|---|---|
| **Entrez GeneID** | 567 |
| **Gene Name** | B2M |
| **Gene Alias** | - |

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|---|---|
| **Gene Description** | beta-2-microglobulin |
| **Omim ID** | 109700 241600 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia |
| **Other Designations** | beta chain of MHC class I molecules\|beta-2-microglobin |

## Publication Reference

- Metabolic reprogramming toward oxidative phosphorylation identifies a therapeutic target for mantle cell lymphoma.

  Zhang L, Yao Y, Zhang S, Liu Y, Guo H, Ahmed M, Bell T, Zhang H, Han G, Lorence E, Badillo M, Zhou S, Sun Y, Di Francesco ME, Feng N, Haun R, Lan R, Mackintosh SG, Mao X, Song X, Zhang J, Pham LV, Lorenzi PL, Marszalek J, Heffernan T, Draetta G, Jones P, Futreal A, Nomie K, Wang L, Wang M.

  Science Translational Medicine 2019 May; 11(491):eaau1167.

  Application: Quant, Mouse, Mouse serum

- A native to amyloidogenic transition regulated by a backbone trigger.

  Eakin CM, Berman AJ, Miranker AD.

  Nature Structural & Molecular Biology 2006 Mar; 13(3):202.

- Quantification of cleaved beta2-microglobulin in serum from patients undergoing chronic hemodialysis.

  Corlin DB, Sen JW, Ladefoged S, Lund GB, Nissen MH, Heegaard NH.

  Clinical Chemistry 2005 Jul; 51(7):1177.

  Application: Quant, Human, Human serum

- Crystal structure of monomeric human beta-2-microglobulin reveals clues to its amyloidogenic properties.

  Trinh CH, Smith DP, Kalverda AP, Phillips SE, Radford SE.

  PNAS 2002 Jul; 99(15):9771.

## Pathway

- Antigen processing and presentation

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## Disease

- Arthritis
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease
- Edema
- Gastritis
- Genetic Predisposition to Disease
- Kidney Failure
- Osteoarthritis
- Parkinson disease
- Stomach Neoplasms

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