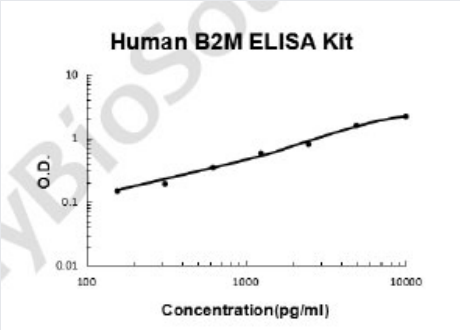
B2M ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	B2M, ELISA Kit
Full Product Name	Human B2M PicoKine ELISA Kit
Product Gene Name	B2M elisa kit
Product Synonym Names	Human B2M
Species Reactivity	Human
Samples	Cell Culture Supernates, Serum And Plasma (Heparin, Edta, Citrate)
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<100pg/ml
Specificity	Natural and recombinant Human ANXA1
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for B2M elisa kit	Principle of the Assay: The Picokine Human ANXA1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human ANXA1 with a 96-well strip plate that is pre-coated with antibody specific for ANXA1. The detection antibody is a biotinylated antibody specific for ANXA1. The capture antibody is A monoclonal antibody from mouse, the detection antibody is a biotinylated detection polyclonal antibody from goat. The kit contains recombinant Human ANXA1 with immunogen: Expression system for standard: NSO, Immunogen sequence: A2-N346. The kit is analytically validated with ready to use reagents. To measure Human ANXA1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Human ANXA1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human ANXA1 in the sample!!Background/Introduction: ANXA1, also known as lipocortin I or Annexin A1, is a protein that in humans is encoded by the ANXA1 gene. It is mapped to 9q21.13. ANXA1 belongs to a family of Ca(2+)-dependent phospholipid binding proteins which have a molecular weight of approximately 35,000 to 40,000 and are preferentially located on the cytosolic face of the plasma membrane. ANXA1 protein has an apparent relative molecular mass of 40 kDa, with phospholipase A2 inhibitory activity. Lower peptide concentrations possibly found in inflammatory situations elicit Ca(2+) transients without fully activating the mitogen-activated protein kinase pathway. This causes a specific inhibition of the transendothelial migration of neutrophils and a desensitization of neutrophils toward a chemoattractant challenge. These findings identified ANXA1 peptides as novel, endogenous FPR ligands and established a mechanistic basis of ANXA1-mediated antiinflammatory effects.
Other Notes	Small volumes of B2M elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for B2M purchase	MBS1751597 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the B2M, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing B2M. The ELISA analytical biochemical technique of the MBS1751597 kit is based on B2M antibody-B2M antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect B2M antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, B2M. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of B2M elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B2M. It may not necessarily be applicable to this product.

NCBI GI #	823672134
NCBI GeneID	567
NCBI Accession #	AKI71278.1
UniProt Related Accession #	P61769
NCBI Official Full Name	B2M, partial
NCBI Official Synonym Full Names	beta-2-microglobulin
NCBI Official Symbol	B2M
NCBI Official Synonym Symbols	IMD43
Protein Family	Beta-2-microglobulin
NCBI Protein Information	beta-2-microglobulin
NCBI Summary for B2M	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. The encoded antimicrobial protein displays antibacterial activity in amniotic fluid. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.[provided by RefSeq, Aug 2014]
Research Articles on B2M	**1.** Data show that plasma beta2-microglobulin (beta2m) levels are specifically increased in Alzheimer's disease (AD), indicating that beta2m could play a role in AD.
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