

Human Alpha-1-microglobulin/bikunin precursor (AMBP) ELISA Kit

Catalog No: #EK11337

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Package Size: #EK11337-1 48T #EK11337-2 96T

Description

Product Name	Human Alpha-1-microglobulin/bikunin precursor (AMBP) ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	A1M; EDC1; HCP; HI30; IATIL; ITI; ITIL; ITILC; UTI; alpha-1-microglobulin/bikunin bikunin complex-forming glycoprotein heterogeneous in charge growth-inhibiting protein 19 inter-alpha-trypsin inhibi
Accession No.	P02760
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:12.50-800 pg/mL

Sensitivity:5.4 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate AMBP in samples. An antibody specific for AMBP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAMBP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AMBP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of AMBP bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Alpha-1-microglobulin (A1M), also known as protein HC (for Heterogeneous Charge), is a low molecular weight protein component of plasma first discovered in pathological human urine. It is a member of the lipocalin superfamily. Although much is now known of its structure and properties, the function and physiological role of A1M remains unclear, although evidence suggests that it functions in the regulation of the immune system. A1M is known to exist in both a free form and complexed to other macromolecules: immunoglobulin A (IgA) in humans and alpha-1-inhibitor-3 in the rat. Free A1M is a monomeric protein composed of one 188 residue polypeptide and contains three cysteines, two of which (residues 75 and 173) form a conserved intra-molecular disulphide link.

Published Papers

el at., Plasma proteome profiling reveals biomarkers of chemotherapy resistance in patients with advanced colorectal cancer, , (2024)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.