

Product datasheet

info@arigobio.com

ARG81612 Human alpha 1 microglobulin ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81612-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81612-002	Standard	2 X 10 ng/vial	4°C
ARG81612-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81612-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81612-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81612-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81612-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81612-008	25X Wash buffer	20 ml	4°C
ARG81612-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81612-010	STOP solution	10 ml (Ready to use)	4°C
ARG81612-011	Plate sealer	4 strips	Room temperature

Summary

Product Description

Standard Range

Sample Volume

	of Human alpha 1 microglobulin in serum, plasma (heparin, EDTA) and cell culture supernatants.	
Tested Reactivity	Hu	
Tested Application	There is no detectable cross-reactivity with other relevant proteins. alpha 1 microglobulin HRP Substrate: TMB and read at 450 nm. 7.8 pg/ml	
Specificity		
Target Name		
Conjugation		
Conjugation Note		
Sensitivity		
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.	

ARG81612 Human alpha 1 microglobulin ELISA Kit is an Enzyme Immunoassay kit for the quantification

15.6 - 1000 pg/ml

100 μΙ

Precision Intra-Assay CV: 6.3%

Inter-Assay CV: 6.7%

Alternate Names Bikunin; HCP; ITIL; ITILC; ITI; ITI-LC; UTI; Protein HC; Complex-forming glycoprotein heterogeneous in

charge; EDC1; HI30; HI-30; Alpha-1 microglycoprotein; A1M; IATIL; Uronic-acid-rich protein; Protein

AMBP

Application Instructions

Assay Time

~ 5 hours

Properties

Form

96 well

Storage instruction

Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

AMBP

Gene Full Name

alpha-1-microglobulin/bikunin precursor

Background

This gene encodes a complex glycoprotein secreted in plasma. The precursor is proteolytically processed into distinct functioning proteins: alpha-1-microglobulin, which belongs to the superfamily of lipocalin transport proteins and may play a role in the regulation of inflammatory processes, and bikunin, which is a urinary trypsin inhibitor belonging to the superfamily of Kunitz-type protease inhibitors and plays an important role in many physiological and pathological processes. This gene is located on chromosome 9 in a cluster of lipocalin genes. [provided by RefSeq, Jul 2008]

Function

Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization.

Trypstatin is a trypsin inhibitor. [UniProt]

Highlight

Related products:

alpha 1 microglobulin antibodies; alpha 1 microglobulin ELISA Kits;

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

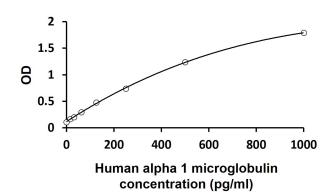
PTM

The precursor is proteolytically processed into separately functioning proteins.

3-hydroxykynurenine, an oxidized tryptophan metabolite that is common in biological fluids, reacts with Cys-53, Lys-111, Lys-137, and Lys-149 to form heterogeneous polycyclic chromophores including hydroxanthommatin. The reaction by alpha-1-microglobulin is autocatalytic; the human protein forms chromophore even when expressed in insect and bacterial cells. The chromophore can react with accessible cysteines forming non-reducible thioether cross-links with other molecules of alpha-1-microglobulin or with other proteins such as Ig alpha-1 chain C region 'Cys-352'.

Heavy chains are interlinked with bikunin via a chondroitin 4-sulfate bridge to the their C-terminal aspartate.

N- and O-glycosylated. N-glycan heterogeneity at Asn-115: Hex5HexNAc4 (major), Hex6HexNAc5 (minor) and dHex1Hex6HexNAc5 (minor). N-glycan at Asn-250: Hex5HexNAc4. O-linkage of the glycosaminoglycan, chondroitin sulfate, at Ser-215 allows cross-linking between the three polypeptide chains. [UniProt]



$\label{lem:eq:args} \mbox{ARG81612 Human alpha 1 microglobulin ELISA Kit standard curve image}$

ARG81612 Human alpha 1 microglobulin ELISA Kit results of a typical standard run with optical density reading at 450 nm.