

ARG83218 Human alpha 2 Macroglobulin ELISA Kit (Rapid One-Step)

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83218 Human alpha 2 Macroglobulin ELISA Kit (Rapid One-Step) is an Enzyme Immunoassay kit for the quantification of Human alpha 2 Macroglobulin in Serum, Plasma, Cell lysates and Cell culture supernatants. It is a rapid One-step 90 minutes protocol.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	alpha 2 Macroglobulin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	300 pg/ml
Detection Range	625 pg/ml - 40,000 pg/ml
Sample Type	Serum, Plasma, Cell lysates and Cell culture supernatants
Precision	Intra-Assay CV: 6.8% Inter-Assay CV: 7.3%
Alternate Names	CPAMD5; Alpha-2-macroglobulin; S863-7; FWP007; Alpha-2-M; A2MD; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5

Application Instructions

Assay Time	~ 1.5 hours
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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	A2M
Gene Full Name	alpha-2-macroglobulin
Background	Alpha-2-macroglobulin is a protease inhibitor and cytokine transporter. It inhibits many proteases, including trypsin, thrombin and collagenase. A2M is implicated in Alzheimer disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid

deposits. [provided by RefSeq, Jul 2008]

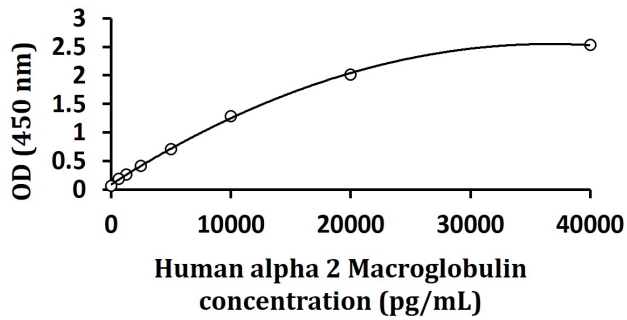
Function

Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase. [UniProt]

Cellular Localization

Secreted. [UniProt]

Images



ARG83218 Human alpha 2 Macroglobulin ELISA Kit (Rapid One-Step) standard curve image

ARG83218 Human alpha 2 Macroglobulin ELISA Kit (Rapid One-Step) results of a typical standard run with optical density reading at 450 nm.