

ARG81487 Human Kallikrein 14 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81487-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81487-002	Standard	2 X 10 ng/vial	4°C
ARG81487-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81487-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81487-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81487-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81487-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81487-008	25X Wash buffer	20 ml	4°C
ARG81487-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81487-010	STOP solution	10 ml (Ready to use)	4°C
ARG81487-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81487 Human Kallikrein 14 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Kallikrein 14 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Kallikrein 14
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.0% Inter-Assay CV: 7.7%
Alternate Names	hK14; Kallikrein-like protein 6; KLK-L6; EC 3.4.21.-; Kallikrein-14

Application Instructions

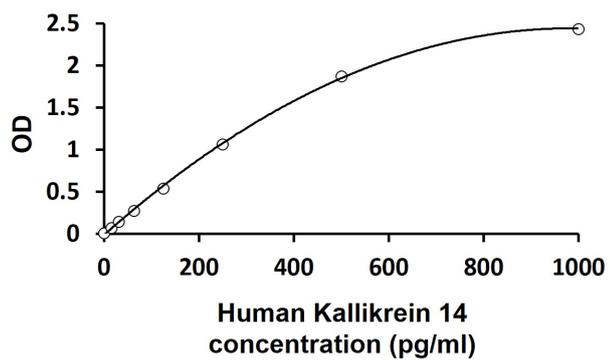
Assay Time	~ 5 hours
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Properties

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	KLK14
Gene Full Name	kallikrein-related peptidase 14
Background	This gene encodes a member of the kallikrein subfamily of serine proteases that have diverse physiological functions such as regulation of blood pressure and desquamation. The altered expression of this gene is implicated in the progression of different cancers including breast and prostate tumors. The encoded protein is a precursor that is proteolytically processed to generate the functional enzyme. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
Function	Serine-type endopeptidase with a dual trypsin-like and chymotrypsin-like substrate specificity. May activate/inactivate the proteinase-activated receptors F2R, F2RL1 and F2RL3 and other kallikreins including KLK1, KLK3, KLK5 and KLK11. May function in seminal clot liquefaction through direct cleavage of the semenogelin SEMG1 and SEMG2 and activation of KLK3. May function through desmoglein DSG1 cleavage in epidermal desquamation a process by which the most superficial corneocytes are shed from the skin surface. May be involved in several aspects of tumor progression including growth, invasion and angiogenesis. [UniProt]
Highlight	Related products: Kallikrein antibodies ; Kallikrein ELISA Kits ; Kallikrein Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Proteolytic cleavage of the activation peptide produces the active enzyme. [UniProt]



ARG81487 Human Kallikrein 14 ELISA Kit standard curve image

ARG81487 Human Kallikrein 14 ELISA Kit results of a typical standard run with optical density reading at 450 nm.