

ARG82622 Human IL16 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82622-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82622-002	Standard	2 X 10 ng/vial	4°C
ARG82622-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82622-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82622-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82622-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82622-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82622-008	25X Wash buffer	20 ml	4°C
ARG82622-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82622-010	STOP solution	10 ml (Ready to use)	4°C
ARG82622-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82622 Human IL16 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL16 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	IL16
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.3% Inter-Assay CV: 6.1%
Alternate Names	prIL-16; Lymphocyte chemoattractant factor; PRIL16; IL-16; NIL16; LCF; Pro-interleukin-16

Application Instructions

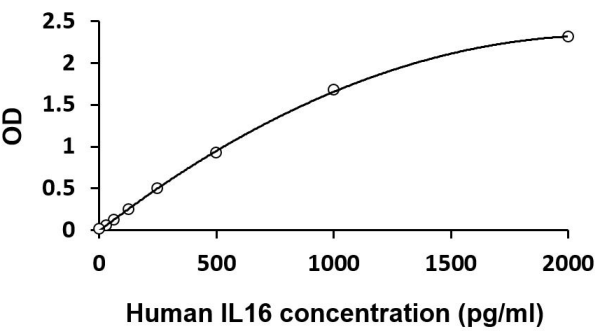
Assay Time	~ 5 hours
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Properties

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	IL16
Gene Full Name	interleukin 16
Background	The protein encoded by this gene is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. The signaling process of this cytokine is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Caspase 3 is reported to be involved in the proteolytic processing of this protein. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]
Function	Interleukin-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Primes CD4+ T-cells for IL-2 and IL-15 responsiveness. Also induces T-lymphocyte expression of interleukin 2 receptor. Ligand for CD4. Isoform 1 may act as a scaffolding protein that anchors ion channels in the membrane. Isoform 3 is involved in cell cycle progression in T-cells. Appears to be involved in transcriptional regulation of SKP2 and is probably part of a transcriptional repression complex on the core promoter of the SKP2 gene. May act as a scaffold for GABPB1 (the DNA-binding subunit the GABP transcription factor complex) and HDAC3 thus maintaining transcriptional repression and blocking cell cycle progression in resting T-cells. [UniProt]
Highlight	Related products: IL16 antibodies; IL16 ELISA Kits; IL16 Duos / Panels; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Isoform 3 is synthesized as a chemo-attractant inactive precursor in hemopoietic tissues and is proteolytically cleaved by caspase-3 to yield IL-16. [UniProt]
Cellular Localization	Interleukin-16: Secreted. Isoform 1: Cytoplasm. Isoform 3: Cytoplasm. Nucleus. [UniProt]



ARG82622 Human IL16 ELISA Kit standard curve image

ARG82622 Human IL16 ELISA Kit results of a typical standard run with optical density reading at 450 nm.