

ARG81341 Mouse IL16 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81341 Mouse IL16 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse IL16 in serum, plasma and cell culture supernatant.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	IL16
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	4 pg/ml
Sample Type	Serum, plasma and cell culture supernatant.
Standard Range	7.8 - 500 pg/ml
Sample Volume	100 µl
Alternate Names	prIL-16; Lymphocyte chemoattractant factor; PRIL16; IL-16; NIL16; LCF; Pro-interleukin-16

Application Instructions

Assay Time	~ 3.5 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](#);

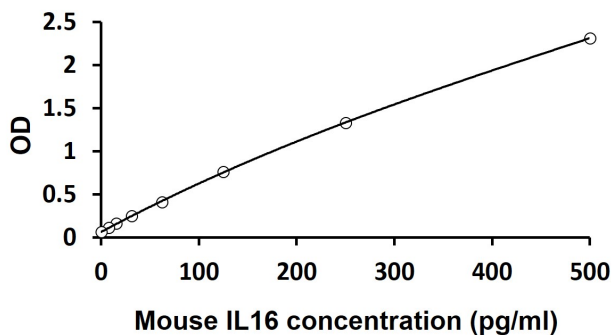
New ELISA data calculation tool:

[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]

Images



ARG81341 Mouse IL16 ELISA Kit standard curve image

ARG81341 Mouse IL16 ELISA Kit results of a typical standard run with optical density reading at 450 nm.