

Human IL-16 ELISA Kit

Catalog No :	KE1134
Reactivity :	Human
Applications :	ELISA
Gene Name :	IL16
Protein Name :	Pro-interleukin-16
Human Gene Id :	3603
Human Swiss Prot No :	Q14005
Mouse Swiss Prot No :	O54824
Specificity :	Sample Type for Cell Culture Supernates, Cell lysates, Tissue Lysates, Serum, EDTA Plasma, Heparin Plasma
Storage Stability :	2-8°C/6 months
Detection Method :	Colorimetric

Background :	<p>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.,function:Isoform 1 may act as a scaffolding protein that anchors ion channels in the membrane.,function: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.,induction:Isoform 3 is down-regulated in T-cells after TCR activation.,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.,similarity:Contains 1 PDZ (DHR) domain.,similarity:Contains 2 PDZ (DHR) domains.,similarity:Contains 4 PDZ (DHR) domains.,subunit:Homotetramer (Probable); according (PubMed:9699630) the formation of a homotetrameric protein complex is not required for the chemo-attractant function. Isoform 3</p>
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interacts (via PDZ 3 domain) with PPP1R12A, PPP1R12B and PPP1R12C. Isoform 1 interacts with PPP1R12B. Isoform 3 interacts with GRIN2A. Isoform 3 interacts with GABPB1. Isoform 3 interacts (via PDZ 3 domain) with HDAC3. Isoform 1 interacts with GRIN2D, KCNJ10, KCNJ15 and CACNA1C (By similarity). Isoform 3 interacts with HTLV-1 tax.,tissue specificity:Isoform 3 is expressed in hemopoietic tissues, such as resting T-cells, but is undetectable during active T cell proliferation.,

Function :

transcription, cell motion, chemotaxis, immune response, behavior, locomotory behavior, cell migration, leukocyte chemotaxis, regulation of response to external stimulus, positive regulation of response to external stimulus,regulation of locomotion, positive regulation of locomotion, taxis, regulation of transcription, positive regulation of behavior, positive regulation of response to stimulus, cell motility, regulation of behavior, leukocyte migration,regulation of chemotaxis, positive regulation of chemotaxis, regulation of positive chemotaxis, positive regulation of positive chemotaxis, induction of positive chemotaxis, localization of cell, cell chemotaxis,

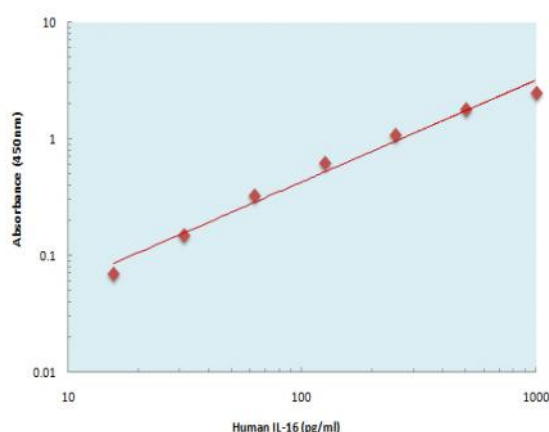
Subcellular Location :

[Interleukin-16]: Secreted.; [Isoform 1]: Cytoplasm .; [Isoform 3]: Cytoplasm. Nucleus.

Expression :

[Isoform 3]: Expressed in hemopoietic tissues, such as resting T-cells, but undetectable during active T-cell proliferation.

Products Images



The Human IL-16 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human IL-16 proteins within the range of 16-1000 pg/ml.