

ARG82759 Human CD305 / LAIR1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82759-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82759-002	Standard	2 X 10 ng/vial	4°C
ARG82759-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82759-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82759-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82759-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82759-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82759-008	25X Wash buffer	20 ml	4°C
ARG82759-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82759-010	STOP solution	10 ml (Ready to use)	4°C
ARG82759-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82759 Human CD305 / LAIR1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD305 / LAIR1 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	CD305 / LAIR1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	50 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6.5% Inter-Assay CV: 8.3%

Alternate Names LAIR-1; hLAIR1; CD305; CD antigen CD305; Leukocyte-associated immunoglobulin-like receptor 1

Application Instructions

Assay Time ~ 5 hours

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 LAIR1

Gene Full Name leukocyte-associated immunoglobulin-like receptor 1

Background The protein encoded by this gene is an inhibitory receptor found on peripheral mononuclear cells, including natural killer cells, T cells, and B cells. Inhibitory receptors regulate the immune response to prevent lysis of cells recognized as self. The gene is a member of both the immunoglobulin superfamily and the leukocyte-associated inhibitory receptor family. The gene maps to a region of 19q13.4 called the leukocyte receptor cluster, which contains at least 29 genes encoding leukocyte-expressed receptors of the immunoglobulin superfamily. The encoded protein has been identified as an anchor for tyrosine phosphatase SHP-1, and may induce cell death in myeloid leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

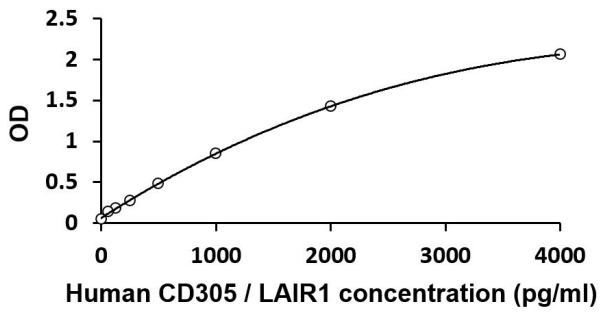
Function Functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of natural killer (NK) cells, B-cells and T-cells. Activation by Tyr phosphorylation results in recruitment and activation of the phosphatases PTPN6 and PTPN11. It also reduces the increase of intracellular calcium evoked by B-cell receptor ligation. May also play its inhibitory role independently of SH2-containing phosphatases. Modulates cytokine production in CD4+ T-cells, down-regulating IL2 and IFNG production while inducing secretion of transforming growth factor beta. Down-regulates also IgG and IgE production in B-cells as well as IL8, IL10 and TNF secretion. Inhibits proliferation and induces apoptosis in myeloid leukemia cell lines as well as prevents nuclear translocation of NF-kappa-B p65 subunit/RELA and phosphorylation of I-kappa-B alpha/CHUK in these cells. Inhibits the differentiation of peripheral blood precursors towards dendritic cells. [UniProt]

Highlight Related products:
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New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

PTM Phosphorylation at Tyr-251 and Tyr-281 activates it. May be phosphorylated by LCK.

N-glycosylated. [UniProt]

Cellular Localization Cell membrane; Single-pass type I membrane protein. [UniProt]



ARG82759 Human CD305 / LAIR1 ELISA Kit standard curve image

ARG82759 Human CD305 / LAIR1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.
