

Human LAIR1 ELISA Kit | LAIR1 elisa kit

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CATALOG #
AAA125833

REACTIVITY
Human

PRODUCT SYNONYMS

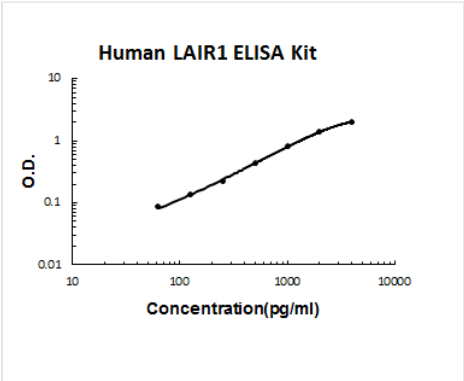
LAIR1; Human LAIR1 ELISA Kit; CD305; LAIR-1; leukocyte associated immunoglobulin like receptor 1; LAIR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human LAIR1
Samples	cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	62.5pg/ml-4,000pg/ml
Sensitivity	<50pg/ml
Capture/Detection Antibodies	Capture antibody- a polyclonal antibody from goat Detection antibody- a biotinylated polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 62.5 125 250 500 1000 2000 4000 O.D. 0.049 0.138 0.186 0.273 0.479 0.853 1.426 2.059
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 210 976 1958 Standard deviation 11.34 67.34 140.98 CV(%) 5.4% 6.9% 7.2%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 216 989 1970 Standard deviation 15.55 84.07 181.24 CV(%) 7.2% 8.5% 9.2%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 210 208 212 206 209 12.96 6.2% Sample 2: 976 962 985 967 973 65.19 6.7% Sample 3: 1958 1930 1942 1964 1948.5 140.29 7.2% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: E Coli; Immunogen sequence: Q22-Y165
Anticoagulant	heparin, EDTA or citrate
Principle	Human LAIR1 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A polyclonal antibody from goat specific for LAIR1 has been precoated onto 96-well plates. Standards(Expression system for standard: E Coli, Immunogen sequence: Q22-Y165) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for LAIR1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse LAIR1 amount of sample captured in plate.

Assay Procedure Step 1	Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human LAIR1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernatants, serum or plasma(heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" for details. It is recommended that each human LAIR1 standard solution and each sample be measured in duplicate.
TMB Incubation Time	15-20
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for LAIR1 elisa kit	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.
Product Categories/Family for LAIR1 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	612407867
NCBI GeneID	3903
NCBI Accession #	NP_001275952.2
NCBI GenBank Nucleotide #	NM_001289023.2
UniProt Accession #	Q6GTX8
Molecular Weight	23,049 Da
NCBI Official Full Name	leukocyte-associated immunoglobulin-like receptor 1 isoform c
NCBI Official Synonym Full Names	leukocyte-associated immunoglobulin-like receptor 1
NCBI Official Symbol	LAIR1
NCBI Official Synonym Symbols	CD305; LAIR-1
NCBI Protein Information	leukocyte-associated immunoglobulin-like receptor 1; leukocyte-associated Ig-like receptor 1

UniProt Protein Name	Leukocyte-associated immunoglobulin-like receptor 1
UniProt Gene Name	LAIR1
UniProt Synonym Gene Names	CD305; LAIR-1; hLAIR1
UniProt Entry Name	LAIR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/lair1/125833>