

Human LILRB1 ELISA Kit | LILRB1 elisa kit

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CATALOG #
AAA125843

REACTIVITY
Human

PRODUCT SYNONYMS

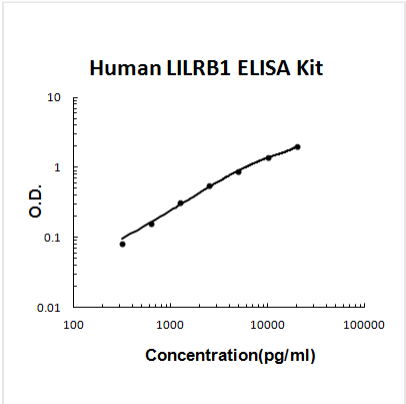
LILRB1; Human LILRB1 ELISA Kit; Leukocyte immunoglobulin-like receptor subfamily B member 1; LIR-1; Leukocyte immunoglobulin-like receptor 1; CD85 antigen-like family member J; Immunoglobulin-like transcript 2; ILT-2; Monocyte/macrophage immunoglobulin-like receptor 7; MIR-7; CD85j; ILT2; LIR1; MIR7; leukocyte immunoglobulin like receptor B1; LILRB1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human LILRB1
Samples	cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	312pg/ml-20,000pg/ml
Sensitivity	<50pg/ml
Capture/Detection Antibodies	Capture antibody- a monoclonal antibody from mouse Detection antibody- a biotinylated polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 312 625 1250 2500 5000 10000 20000 O.D. 0.062 0.144 0.218 0.378 0.612 0.939 1.446 2.059
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 364 2379 7370 Standard deviation 18.93 126.09 405.35 CV(%) 5.2% 5.3% 5.5%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 417 2441 8736 Standard deviation 25.44 156.22 585.31 CV(%) 6.1% 6.4% 6.7%
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: 364 349 378 353 361 11.24 3.1% Sample 2: 2379 2185 2390 2124 2269 117.06 5.1% Sample 3: 7370 7573 8346 7810 7774 364.72 4.6% *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: NS0; Immunogen sequence: G24-V461
Anticoagulant	heparin, EDTA or citrate

Principle	Human LILRB1 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for LILRB1 has been precoated onto 96-well plates. Standards(Expression system for standard: NS0, Immunogen sequence: G24-V461) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for LILRB1 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 human LILRB1 amount of sample captured in plate.
Assay Procedure Step 1	Aliquot 0.1ml per well of the 20000pg/ml, 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml human LILRB1 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. We recommended that each human LILRB1 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



Standard Curve (Sample)
Human LILRB1 ELISA Kit Standard Curve

ADDITIONAL INFORMATION

Related Product Information for LILRB1 elisa kit	Leukocyte immunoglobulin-like receptors (LILRs), also called CD85s, ILTs, or LIRs, are important mediators of immune activation and tolerance that contain tandem immunoglobulin (Ig)-like folds. LILRB1 is encoded within the leukocyte receptor complex on 19q13. 4, previously implicated to be a susceptibility region to systemic lupus erythematosus (SLE). LILRB1 binds to a wide range of major histocompatibility complex class I molecules (MHCIs) and transduces negative signals that can, for example, prevent killing of MHC-I-expressing cells. LILRB1 transcription is correlated with surface protein expression on NK cells.
Product Categories/Family for LILRB1 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	612149795
NCBI GeneID	10859
NCBI Accession #	NP_001075108.2
NCBI GenBank Nucleotide #	NM_001081639.3
UniProt Accession #	Q8NHL6; O75024; O75025; Q8NHJ9; Q8NHK0; A2IXV4; A8MXT0
Molecular Weight	70,819 Da

NCBI Official Full Name	leukocyte immunoglobulin-like receptor subfamily B member 1 isoform 4
NCBI Official Synonym Full Names	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1
NCBI Official Symbol	LILRB1
NCBI Official Synonym Symbols	ILT2; LIR1; MIR7; CD85J; ILT-2; LIR-1; MIR-7
NCBI Protein Information	leukocyte immunoglobulin-like receptor subfamily B member 1; Ig-like transcript 2; CD85 antigen-like family member J; monocyte/macrophage immunoglobulin-like receptor 7; leukocyte immunoglobulin-like receptor subfamily B member 1 soluble isoform
UniProt Protein Name	Leukocyte immunoglobulin-like receptor subfamily B member 1
UniProt Gene Name	LILRB1
UniProt Synonym Gene Names	ILT2; LIR1; MIR7; LIR-1; Leukocyte immunoglobulin-like receptor 1; ILT-2; MIR-7
UniProt Entry Name	LIRB1_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/lilrb1/125843>