

Human Interleukin 1 receptor, type 1, IL-1R1 ELISA Kit | IL-1R1 elisa kit

Human Interleukin 1 receptor, type 1, IL-1R1

CATALOG #
AAA59121

REACTIVITY
Human

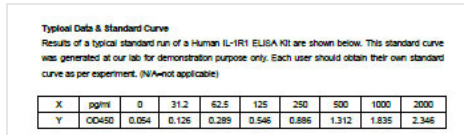
PRODUCT SYNONYMS

Interleukin 1 receptor; type 1; IL-1R1; Human Interleukin 1 receptor; IL-1R1 Human ELISA Kit; type I; IL1R1 ELISA Kit; IL-1R1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Sequence Length	569
Samples	Human serum, plasma, cell culture supernatants or tissue homogenate
Assay Type	Quantitative Sandwich
Detection Range	31.2 pg/ml-2000 pg/ml
Sensitivity	<2 pg/ml
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-1R1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- IL-1R1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- IL-1R1 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was 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 IL-1R1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-1R1 can be calculated.

Background: Interleukin 1 receptor, type I (IL1R1) also known as CD121a (Cluster of Differentiation 121a), is an interleukin receptor. IL1R1 also denotes its human gene. Helicobacter pylori (Hp) is an environmental inducer of gastritis and gastric cancer (GC). The immune response to Hp and the associated changes in somatic gene expression are key determinants governing the transition from gastritis to GC. Disruption of the HNF4alpha/IL-1R1/IL-1beta/NF-kappaB circuit during Hp infection maybe an effective means of preventing the associated GC. Signaling through the IL-1-receptor type 1 (IL-1R1), IL-1 is required for initiation and maintenance of diverse activities of the immune system. A second receptor, IL-1R2, blocks IL-1 signal transduction. The functions of the IL-1R2 as a "decoy-receptor" sequestering paracrine IL-1 extracellularly and intracellularly by engaging IL-1IRAcP, thus depriving IL-1R1 molecules of their extracellular and intracellular ligands. Expression of IL-1R2 by HRS cells seems to contribute to local and systemic modulation of immune function in HL.

References	Ma L, Zeng J, Guo Q, Liang X, Shen L, Li S, Sun Y, Li W, Liu S, Yu H, Chen C, Jia J. Mutual amplification of HNF4alpha and IL-1R1 composes an inflammatory circuit in Helicobacter pylori associated gastric carcinogenesis. Oncotarget. 2016 Feb 8. Oelmann E, Stein H, Berdel WE, Herbst H. Expression of Interleukin-1 and Interleukin-1 Receptors Type 1 and Type 2 in Hodgkin Lymphoma. PLoS One. 2015 Sep 25;10(9):e0138747.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	1005261075
NCBI GeneID	3554
NCBI GenBank Nucleotide #	NM_001320982.1
Molecular Weight	65,402 Da
NCBI Official Full Name	interleukin-1 receptor type 1 isoform 1
NCBI Official Synonym Full Names	interleukin 1 receptor type 1
NCBI Official Symbol	IL1R1
NCBI Official Synonym Symbols	P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha
NCBI Protein Information	interleukin-1 receptor type 1
UniProt Protein Name	Interleukin-1 receptor type 1
UniProt Gene Name	IL1R1
UniProt Synonym Gene Names	IL1R; IL1RA; IL1RT1; IL-1R-1; IL-1RT-1; IL-1RT1; IL-1R-alpha; mIL-1R1; mIL-1RI; sIL-1R1; sIL-1RI
UniProt Entry Name	IL1R1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/interleukin-1-receptor-type-1-il-1r1/59121>