

Rat IL-1R2/CD121b ELISA Kit | IL-1R2/CD121b elisa kit

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CATALOG #
AAA258501

REACTIVITY
Rat

PRODUCT SYNONYMS

IL-1R2/CD121b; Rat IL-1R2/CD121b ELISA Kit; IL1R2 ELISA Kit; Rat; interleukin 1 receptor; type II; IL-1R2/CD121b elisa kit

PRODUCT SPECIFICATIONS

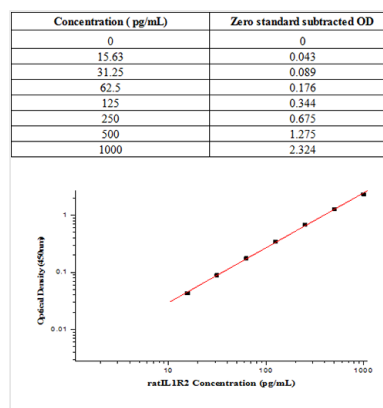
Reactivity	Rat
Specificity	For the quantitative determination of Rat IL-1R2/CD121b concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	15.63-1000pg/mL
Sensitivity	4.7pg/mL
Conjugation	HRP
Interference	Preparations of rat IL1B and rat IL1LB at 50ng/mL in a mid-range recombinant rat IL1R2 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES

Recombinant human			
IL1R1	IL1R2	IL1R4	IL1RL2
IL1R5	SIGIRR		
Recombinant mouse			
IL1R2			
Recombinant rat			
IL2	IL10	IL12B	TNFA
IL6	CCL3	TIMP1	VEGF164
CNTN3	IL7	IL20	IL9
IL21	CXCL1	CLEC5A	CXCL16
IL1B	IL1RN		
Recombinant canine			
IL1R2			
Recombinant cynomolgus			
IL1R2			

Application Data

This assay recognizes both recombinant and natural Rat IL1R2. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for IL-1R2/CD121b elisa kit	This IL1R2 ELISA Kit, Rat is an enzyme-linked immunosorbent assay for the quantitative measurement of Rat IL1R2 protein in Serum. It contains recombinant Rat IL1R2, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Interleukin 1 receptor, type II (IL1R2) also known as CD121b (Cluster of Differentiation 121b) is a cytokine receptor that belongs to the interleukin-1 receptor family. This protein binds interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA), and acts as a decoy receptor that inhibits the activity of its ligands. The pleiotropic cytokine IL1 is produced to regulate the development and maintenance of the inflammatory responses and binds to specific plasma membrane receptors on cells. Two distinct types of IL1 receptors that can bind IL1 specifically have been identified, designated as IL1RI (IL1RA) and IL1RII (IL1RB). IL1R1 contributes to IL-1 signaling, whereas the IL-1R2/CD121b has no signaling property and acts as a decoy for IL-1. IL-1R2/CD121b structurally consisting of a ligand-binding portion comprised of three Ig-like domains, a single transmembrane region, and a short cytoplasmic domain is expressed in a variety of cell types including B lymphocytes, neutrophils, monocytes, large granular leukocytes, and endothelial cells. Interleukin 4 (IL4) is reported to antagonize the activity of interleukin 1 by inducing the expression and release of this cytokine.
References	Cannon JG, et al. (1997) Interleukin-1 beta, interleukin-1 receptor antagonist, and soluble interleukin-1 receptor type II secretion in chronic fatigue syndrome. J Clin Immunol. 17 (3): 253-61. Liu C, et al. (1996) Cloning and characterization of an alternatively processed human type II interleukin-1 receptor mRNA. J Biol Chem. 271 (34): 20965-72. Van der Poll T, et al. (1997) Antiinflammatory cytokine responses during clinical sepsis and experimental endotoxemia: sequential measurements of plasma soluble interleukin (IL)-1 receptor type II, IL-10, and IL-13. J Infect Dis. 175 (1): 118-22.

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/rat-elisa-kits/il-1r2-cd121b/258501>