

Rat IL-1R1/CD121a ELISA Kit | IL-1R1/CD121a elisa kit

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CATALOG #
AAA258498

REACTIVITY
Rat

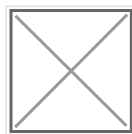
PRODUCT SYNONYMS

IL-1R1/CD121a; Rat IL-1R1/CD121a ELISA Kit; IL1R1 ELISA Kit; Rat; interleukin 1 receptor; type I; IL-1R1/CD121a elisa kit

PRODUCT SPECIFICATIONS

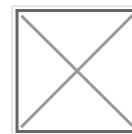
Reactivity	Rat
Specificity	For the quantitative determination of Rat IL-1R1/CD121a concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	54.69-3500pg/mL
Sensitivity	14.76pg/mL
Conjugation	HRP
Interference	Preparations of rat IL1B and IL1RN at 35ng/mL in a mid-range recombinant rat IL1R1 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



Application Data

This assay recognizes both recombinant and natural Rat IL1R1. 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-1R1/CD121a elisa kit	This IL1R1 ELISA Kit, Rat is an enzyme-linked immunosorbent assay for the quantitative measurement of Rat IL1R1 protein in Serum. It contains recombinant Rat IL1R1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Interleukin 1 receptor, type I (IL-1R1) also known as CD121a (Cluster of Differentiation 121a), is an interleukin receptor. IL-1R1/CD121a is a cytokine receptor that belongs to the interleukin 1 receptor family. This protein is a receptor for interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA). IL-1R1/CD121a is an important mediator involved in many cytokines induced immune and inflammatory responses. This protein has been characterized by pharmacological and molecular techniques in the mouse brain. The spindle-shaped astrocytes enclose the wound, separating the healthy from damaged neural tissue. The shape change and subsequent repair processes are IL-1beta activity-dependent, acting through the IL-1 type 1 receptor (IL-1R1), as co-application of the IL-1type 1 receptor antagonist protein (IL-1ra) blocks IL-1beta induced effects. In the spleen, a slight increase in IL-1R ACP and IL-1R1 was observed during the first hours following LPS stimulation. In conclusion, IL-1R AcP mRNA is expressed in the brain and in other tissues where IL-1R1/CD121a transcripts are found. However, the regulation of its expression is distinct from IL-1R1/CD121a. The high level of expression and the lack of regulation of IL-1R AcP transcripts in the brain under inflammatory conditions suggest that the protein might be constitutively expressed in excess.
References	Dale M, et al. (1999). "Interleukin-1 receptor cluster: gene organization of IL1R2, IL1R1, IL1RL2 (IL-1Rrp2), IL1RL1 (T1/ST2), and IL18R1 (IL-1Rrp) on human chromosome 2q.". Genomics 57 (1): 177-9. Joos L, et al. (2001). "Association of IL-1beta and IL-1 receptor antagonist haplotypes with rate of decline in lung function in smokers.". Thorax 56 (11): 863-6. Vigers GP, et al. (1997). "Crystal structure of the type-I interleukin-1 receptor complexed with interleukin-1beta.". Nature 386 (6621): 190-4.

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/rat-elisa-kits/il-1r1-cd121a/258498>