

Product datasheet for R1138

IL1 Receptor I (IL1R1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP
Recommended Dilution:	This antiserum against anti-Human IL-1 Receptor Type I (IL-1RI) has been tested for use in ELISA, Radioimmunoassays and Immunoprecipitation. Reactivity in other immunoassays is unknown. <u>Recommended Dilutions:</u> This product has been assayed for the ability to immunoprecipitate antigen. A dilution range of 1:400 to 1:800 is suggested for this immunoassay. For immunoprecipitation, pre-clearing with a non-specific rabbit IgG is helpful to reduce background. This product has been assayed by ELISA against soluble (extracellular) IL-1RI using HRP Conjugated Anti-Rabbit IgG [H&L] (Goat) (R1364HRP) and ABTS as a substrate for 30 minutes at room temperature. A working dilution range of 1:1,000 to 1:2000 is suggested for this product. This product has been assayed by radioimmunoassay against antigen. A dilution of 1:8,000 is suggested for this immunoassay.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The whole rabbit serum was prepared by repeated immunizations with recombinant human IL-1R type I.
Specificity:	This antiserum has been heated to 56°C for 30 minutes. The antiserum is directed against the extracellular domain of the human IL-1R type I, but precipitates the intact receptor expressed on human cells. In general, this antibody also detects primate IL-1RI. The antibody does not recognize human IL-1, IL-1Ra or IL-1R type II. In ELISA formats and other immunoreactive assays, this antibody will detect the extracellular domain of the IL-1R type I (also called soluble IL-1R type I or "decoy" receptor) found in human body fluids, particularly in the circulation, urine and supernatants of cells and synovial fluid.
Formulation:	State: Serum State: Liquid (sterile filtered) purified Ig fraction with with 0.01% (w/v) Sodium Azide as preservative.
Concentration:	lot specific
Conjugation:	Unconjugated



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Storage:	Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer. Dilute only prior to immediate use. Avoid cycles of freezing and thawing.
Stability:	Shelf life: One year from despatch.
Database Link:	Entrez Gene 3554 Human P14778
Background:	IL1 binds antigen CD121a, which is a transmembrane glycoprotein and a member of the immunoglobulin superfamily expressed on T cells, thymocytes, dendritic cells, fibroblasts, vascular endothelial cells, epithelial cells and neural cells. CD121a binds the mature forms of IL1 alpha, IL1 beta, and IL1 Ra proteins. High affinity binding and signalling by the type I IL1 receptor requires CD121a and the accessory protein, IL1 R AcP, which does not bind IL1 alone, but forms a dimer capable of binding IL1. Interleukin 1 (IL1), which has a role as a mediator in inflammation, consists of 2 separate but related proteins, IL1 alpha and IL1 beta. Cell surface receptors for the 2 forms of IL1 are identical. IL1R Type I contains a single membrane spanning segment, a large cytoplasmic region, and an extracellular, IL1 binding portion composed of 3 immunoglobulin like domains.
Synonyms:	IL1R, IL1RA, IL1RT1, Interleukin-1 receptor alpha, IL-1R-alpha, Interleukin-1 receptor type 1
Note:	Endotoxin Content: < 10 pg/µl by LAL method.