

Product datasheet for **AM00966PU-N**

IL1 Receptor I (IL1R1) Mouse Monoclonal Antibody [Clone ID: BDI204]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BDI204
Applications:	ELISA, IF, R
Recommended Dilution:	ELISA: Can be used as capture reagents or second antibody at a concentration of 5µg/ml. RIA: Concentrations of 20-30ng/ml of these antibodies will bind radiolabeled IL-1 receptor in a radioimmunoassay format. Immunohistochemistry: IL-1 receptor can be detected on cultured cells using antibody concentrations of 10-100µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	The extracellular domain of the type I human IL-1 receptor
Specificity:	This antibody reacts with cell surface and soluble human IL-1 receptor. Does not block binding of IL-1 to receptor. Does not cross react with receptors for human IL-2 or IL-4.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 1 receptor type 1
Database Link:	Entrez Gene 3554 Human P14778



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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