

AM00966PU-N

Monoclonal Antibody to CD121a / IL1R1 - Purified

Alternate names:	IL-1R-alpha, IL1R, IL1RA, IL1RT1, Interleukin-1 receptor alpha, Interleukin-1 receptor type 1, Interleukin-1 receptor type I
Quantity:	0.2 mg
Concentration:	2.2mg/ml (OD280nm)
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.
Uniprot ID:	P14778
NCBI:	NP_000868.1
GeneID:	3554
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	BDI204
Immunogen:	The extracellular domain of the type I human IL-1 receptor
Format:	State: Liquid purified Ig Purification: Protein G chromatography Buffer System: PBS, pH 7.4
Applications:	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. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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.

Storage:

Store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.