

Datasheet for ABIN1176949
anti-IL1R1 antibody



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Overview

Quantity:	0.5 mg
Target:	IL1R1
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL1R1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Flow Cytometry (FACS), Blocking Reagent (BR)

Product Details

Brand:	BD Pharmingen™
Immunogen:	IL-1 receptors from the C57BL/6 mouse T lymphoma EL4.IL2
Clone:	35F5
Isotype:	IgG1 kappa
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin level is ≤ 0.01 EU/µg (≤ 0.001 ng/µg) of protein as determined by the LAL assay.

Target Details

Target:	IL1R1
Alternative Name:	CD121a (IL1R1 Products)
Background:	The 35F5 antibody reacts with the type-I interleukin (IL-1) receptor (CD121a) expressed by T-cell, fibroblast, and epithelial cell lines such as EL-4 and 3T3. Expression of the 35F5 epitope on normal mouse thymocytes and splenocytes is undetectable by flow cytometry. CD121a is an 80-kDa type-I transmembrane glycoprotein, a member of the Ig superfamily which mediates the inflammatory responses of leukocytes to IL-1. mAb 35F5 is capable of blocking the binding of IL-1alpha, IL-1beta, and IL-1 receptor antagonist to the type-I IL-1 receptor. The 35F5 mAb is highly specific for the type-I IL-1 receptor and does not react with the type-II IL-1 receptor (CD121b) which is present on murine macrophage and B-cell lines and polymorphonuclear leukocytes (PMN) and PMN progenitors. Synonyms: IL-1 Receptor, Type I/p80
Pathways:	NF-kappaB Signaling , Carbohydrate Homeostasis , Cancer Immune Checkpoints

Application Details

Application Notes:	Flow cytometry: Since this antigen may be expressed at low density on the cell surface, investigators may wish to perform staining using Biotin Goat Anti-Rat Ig (Cat. No. 554014) coupled with a bright third-step reagent, such as PE Streptavidin (Cat. No. 554061). Western Blot: The 35F5 antibody has been reported to be useful for western blotting of non-reduced proteins and being non-reactive to reduced proteins.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered.
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Publications

Product cited in: McIntyre, Stepan, Kolinsky, Benjamin, Plocinski, Kaffka, Campen, Chizzonite, Kilian: "Inhibition of interleukin 1 (IL-1) binding and bioactivity in vitro and modulation of acute inflammation in vivo by IL-1 receptor antagonist and anti-IL-1 receptor monoclonal antibody." in: **The Journal of experimental medicine**, Vol. 173, Issue 4, pp. 931-9, (1991) ([PubMed](#)).

Chizzonite, Truitt, Kilian, Stern, Nunes, Parker, Kaffka, Chua, Lugg, Gubler: "Two high-affinity interleukin 1 receptors represent separate gene products." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 86, Issue 20, pp. 8029-33, (1989) ([PubMed](#)).