

Anti-IL-1R1 [Antibody 6] Standard Size Ab03374-11.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Human IgG2, Fc Silent™, Lambda

Clone Number: Antibody 6

Alternative Name(s) of Target: CD121a; IL1R1; IL1R; IL1RA; IL1RT1; Interleukin-1 receptor type 1; IL-1R-1; IL-1RT-1; IL-1RT1; CD121 antigen-like family member A; Interleukin-1 receptor alpha; IL-1R-alpha; Interleukin-1 receptor type I; p80

UniProt Accession Number of Target Protein: P14778

Published Application(s): inhibit, FC

Published Species Reactivity: Human, Cynomolgus Monkey

Immunogen: The original antibody was isolated from a naïve human single chain Fv (scFv) phage display libraries using a series of selection cycles on recombinant human IL-1R1. The scFv was later reformatted to the human IgG1 version.

Specificity: This antibody binds human IL-1R1 and cynomolgus monkey IL-1R1 but does not cross react with mouse IL-1R1. This antibody binds an epitope containing amino acids in a discontinuous epitope of 33 amino acids in three regions of human IL-1R1; N123-V134, L140-K157 and K178-R180. The human IL-1R1 protein acts as a receptor for IL1A, IL1B and IL1RN.

Application Notes: The binding affinity of this antibody to human IL-1R1 was determined using kinetic exclusion assay. It was reported that the human IgG1 version of this antibody binds human IL-1R1 with a binding affinity of 3.05 pM. The human IgG1 version of this antibody shows the inhibition of IL-1β induced IL-8 release from HeLa cells. The IgG2 version was capable of inhibition of IL-1β and IL-α induced IL-8 release from HeLa cells. The binding of this antibody was capable of inhibiting binding of IL-1Ra binding to IL-1R1. This antibody was reported to inhibit hIL-1β-induced IL-8 release from CYNOM-K1 cells. The human IgG1 and IgG2 versions of this antibody was capable of inhibiting IL-6 production in human whole blood. The IgG2 version also blocked IL-1 activity (US8298533).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 200 µg Purified antibody.

Purification:

Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.