

## Anti-IL-1R1 [Antibody 6] Standard Size Ab03374-3.0

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG2 format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Mouse IgG2b, 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-1 $\beta$  induced IL-8 release from HeLa cells. The IgG2 version was capable of inhibition of IL-1 $\beta$  and IL- $\alpha$  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 huIL-1 $\beta$ -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.