

IL1R1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13994b**Specification**

IL1R1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P14778](#)**IL1R1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 3554**Other Names**

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, CD121a, Interleukin-1 receptor type 1, membrane form, mIL-1R1, mIL-1RI, Interleukin-1 receptor type 1, soluble form, sIL-1R1, sIL-1RI, IL1R1, IL1R, IL1RA, IL1RT1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13994b was selected from the C-term region of IL1R1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IL1R1 Antibody (C-term) Blocking peptide - Protein Information**Name** IL1R1**Synonyms** IL1R, IL1RA, IL1RT1**Function**

Receptor for IL1A, IL1B and IL1RN (PubMed:2950091). After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Involved in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells

(PubMed:10653850).

Cellular Location

Membrane; Single- pass type I membrane protein. Cell membrane. Secreted

Tissue Location

Expressed in T-helper cell subsets. Preferentially expressed in T-helper 1 (Th1) cells.

IL1R1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

IL1R1 Antibody (C-term) Blocking peptide - Images**IL1R1 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family. This protein is a receptor for interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA). It is an important mediator involved in many cytokine induced immune and inflammatory responses. This gene along with interleukin 1 receptor, type II (IL1R2), interleukin 1 receptor-like 2 (IL1RL2), and interleukin 1 receptor-like 1 (IL1RL1) form a cytokine receptor gene cluster in a region mapped to chromosome 2q12.

IL1R1 Antibody (C-term) Blocking peptide - References

Fragoso, J.M., et al. Immunol. Lett. 133(2):106-111(2010) Franchim, C.S., et al. Hypertens Pregnancy (2010) In press : Melen, E., et al. J. Allergy Clin. Immunol. 126(3):631-637(2010) de Wit, E., et al. Mamm. Genome (2010) In press : Ryckman, K.K., et al. PLoS ONE 5 (8), E12273 (2010) :