

Phospho-IL1R(Y496) Antibody Blocking peptide

Synthetic peptide Catalog # BP3131a

Specification

Phospho-IL1R(Y496) Antibody Blocking peptide - Product Information

Primary Accession

P14778

Phospho-IL1R(Y496) Antibody 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, IL1R, IL1R, IL1RA, IL1RT1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP3131a was selected from the region of human Phospho-IL1R-Y496. 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.

Phospho-IL1R(Y496) Antibody 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.



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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.

Phospho-IL1R(Y496) Antibody Blocking peptide - Protocols

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

• Blocking Peptides

Phospho-IL1R(Y496) Antibody Blocking peptide - Images

Phospho-IL1R(Y496) Antibody Blocking peptide - Background

IL1R is a member of the interleukin 1 receptor family. An experiment with transient gene expression demonstrated that this receptor was incapable of binding to interleukin 1 alpha and interleukin 1 beta with high affinity. IL1R is a receptor for interleukin 1 family member 9 (IL1F9). Binding to the agonist leads to the activation of NF-kappa-B. The gene for this protein and four other interleukin 1 receptor family genes, including interleukin 1 receptor, type I (IL1R1), interleukin 1 receptor, type II (IL1R2), interleukin 1 receptor-like 1 (IL1RL1), and interleukin 18 receptor 1 (IL18R1), form a cytokine receptor gene cluster in a region mapped to chromosome 2g12.

Phospho-IL1R(Y496) Antibody Blocking peptide - References

Debets, R., et al., J. Immunol. 167(3):1440-1446 (2001). Dale, M., et al., Genomics 57(1):177-179 (1999).Torigoe, K., et al., J. Biol. Chem. 272(41):25737-25742 (1997).Lovenberg, T.W., et al., J. Neuroimmunol. 70(2):113-122 (1996).