

Phospho-IL1R(Y496) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3131a

Specification

Phospho-IL1R(Y496) Antibody - Product Information

Application	WB, IHC-P,E
Primary Accession	P14778
Other Accession	Q02955
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

Phospho-IL1R(Y496) Antibody - 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, mL-1R1, mL-1RI, Interleukin-1 receptor type 1, soluble form, sIL-1R1, sIL-1RI, IL1R1, IL1R, IL1RA, IL1RT1

Target/Specificity

This IL1R Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y496 of human IL1R.

Dilution

WB~~1:1000
IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-IL1R(Y496) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-IL1R(Y496) Antibody - Protein Information

Name IL1R1

Synonyms IL1R, IL1RA, IL1RT1

Function Receptor for IL1A, IL1B and IL1RN (PubMed:[2950091](#), PubMed:[37315560](#)). 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

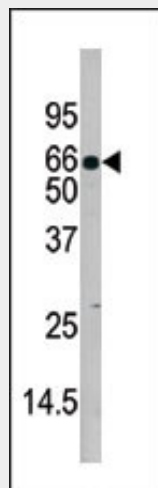
Tissue Location

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

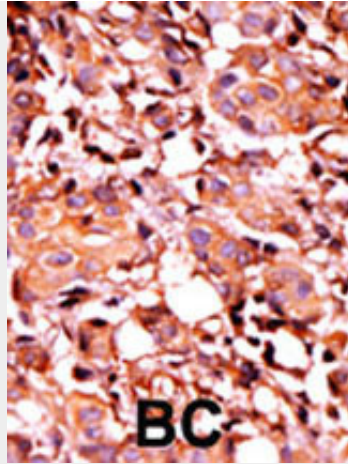
Phospho-IL1R(Y496) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-IL1R(Y496) Antibody - Images

The anti-Phospho-IL1R-Y496 Pab (Cat. #AP3131a) is used in Western blot to detect Phospho-IL1R-Y496 in mouse liver tissue lysate



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Phospho-IL1R(Y496) Antibody - 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 2q12.

Phospho-IL1R(Y496) Antibody - 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).