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Phospho-IL1R(Y496) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3131a

Product Information

Application	WB, IHC-P, E
Primary Accession	P14778
Other Accession	Q02955
Reactivity	Human
Predicted	Rat, Mouse, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	65402

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	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~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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.

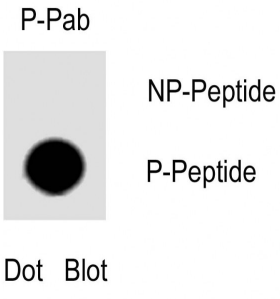
Background

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.

References

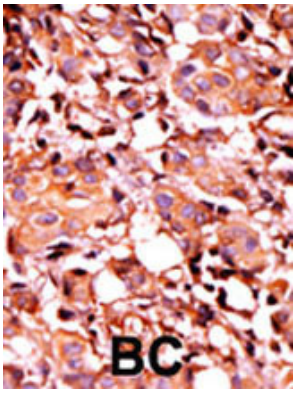
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Images



Dot blot analysis of Phospho-Phospho-IL1R(Y496) Antibody Phospho-specific Pab (Cat. AP3131a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antobodies working concentration was 0. 5ug per ml.

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.



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