Product datasheet

Anti-IL1RAP antibody ab8109

Overview

Product name  Anti-IL1RAP antibody
Description  Rabbit polyclonal to IL1RAP
Host species  Rabbit
Specificity  It has no cross activity to other members in the IL-1 receptor family.
Tested applications  Suitable for: IHC-P, WB, ICC/IF
Species reactivity  Reacts with: Human
Immunogen  Synthetic peptide corresponding to Human IL1RAP aa 549-569.
Sequence: KKSPRRSSDEQGLSYSSLKN

Positive control  HeLa whole cell lysate

General notes

The pro-inflammatory cytokine IL-1 induced cellular response requires two subunits of its receptor, IL-1 receptor I (IL-1RI) and IL-1 receptor accessory protein (IL-1RACP). IL-1RACP forms a complex with IL-1RI in response to IL-1 treatment. The IL-1 receptor-associated kinase (IRAK), which mediates activation of NF-kB inducing kinase (NIK) and of NF-kB, recruits to the IL-1R complex through IL-1RACP. IL-1 activation of stress activated protein kinase and of acid sphingomyelinase also requires IL-1RACP (3,4). Like IL-1RI, IL-1RACP subunit is essential for IL-1 mediated cellular response. IL-1RACP is expressed in many tissues.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer  Preservative: 0.02% Sodium azide
Purity  Immunogen affinity purified
Primary antibody notes  The pro-inflammatory cytokine IL-1 induced cellular response requires two subunits of its receptor, IL-1 receptor I (IL-1RI) and IL-1 receptor accessory protein (IL-1RACP). IL-1RACP...
forms a complex with IL-1RI in response to IL-1 treatment. The IL-1 receptor-associated kinase (IRAK), which mediates activation of NF-kB inducing kinase (NIK) and of NF-kB, recruits to the IL-1R complex through IL-1RαCp. IL-1 activation of stress activated protein kinase and of acid sphingomyelinase also requires IL-1RαCp (3,4). Like IL-1RI, IL-1RαCp subunit is essential for IL-1 mediated cellular response. IL-1RαCp is expressed in many tissues.

Clonality  
Polyclonal

Isotype  
IgG

Applications

Our Abpromise guarantee covers the use of ab8109 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 18765825</td>
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<tr>
<td>WB</td>
<td>1/500 - 1/1000. Detects a band of approximately 66 kDa. Can be blocked with IL1RAP peptide (ab6105).</td>
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<tr>
<td>ICC/IF</td>
<td>Use a concentration of 5 µg/ml.</td>
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Target

Function  
Coreceptor with IL1R1. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B 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. Recruits TOLLIP to the signaling complex. Does not bind to interleukin-1 alone; binding of IL1RN to IL1R1, prevents its association with IL1R1 to form a signaling complex. The cellular response is modulated through a non-signaling association with the membrane IL1R2 decoy receptor. Secreted forms (isoforms 2 and 3) associate with secreted ligand-bound IL1R2 and increase the affinity of secreted IL1R2 for IL1B; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors.

Tissue specificity  
Detected in liver, skin, placenta, thymus and lung.

Sequence similarities  
Belongs to the interleukin-1 receptor family. Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 TIR domain.

Cellular localization  
Secreted and Cell membrane.

Images
Western blot of K562 cell lysate labeling IL1RAP with Anti-IL1RAP antibody (ab8109) at 1 µg/ml.

Anti-IL1RAP antibody (ab8109) at 1/500 dilution + Hela whole cell lysate

**Observed band size:** 66 kDa

ab8109 at 5 µg/ml staining IL1RAP in Hela cells by ICC/IF

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