Product datasheet

Anti-IL-1RAcP antibody ab8109

Overview

Product name: Anti-IL-1RAcP antibody
Description: Rabbit polyclonal to IL-1RAcP
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 IL-1RAcP aa 549-569.
Sequence:
KKSPRRSSDEQGLSYSSLKN

(Enter the peptide sequence available as ab6105)

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 kinases (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.

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>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<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></td>
<td>1/500 - 1/1000. Detects a band of approximately 66 kDa.</td>
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<tr>
<td>ICC/IF</td>
<td></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
Anti-IL-1RAcP antibody (ab8109) at 1 µg/ml + K562 cell lysate

**Observed band size:** 66 kDa
*why is the actual band size different from the predicted?*

ab8109 at 5µg/ml staining IL-1RAcP in Hela cells by ICC/IF

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"**

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