**Anti-Interleukin-1 Receptor Accessory Protein, C-Terminal**
produced in rabbit, affinity isolated antibody

**Catalog Number** I1404

**Synonym:** Anti-IL-1RAcP

**Product Description**
Anti-Interleukin-1 Receptor Accessory Protein, C-Terminal is produced in rabbit using a synthetic peptide corresponding to the C-terminal amino acids 549-569 of human interleukin-1 receptor accessory protein (IL-1RacP) as immunogen. This sequence differs from that of mouse by 3 amino acids. The antibody recognizes Interleukin-1 Receptor Accessory Protein from human tissues by immunoblotting (66 kDa). There is no cross-reactivity to other members in the IL-1 receptor family.

IL-1RacP is a subunit of IL-1RI, the receptor for the pro-inflammatory cytokine, interleukin 1. The response of cells to IL-1 is dependent on the activity of IL-1RacP. IL-1 treatment of cells induces the formation of a complex containing both IL-1RI and IL-1RacP. Then the IL-1 receptor-associated kinase (IRAK) is recruited to this complex and activated through its association with IL-1RacP. The activation of SAP kinase (stress-activated kinase) is similarly dependent on IL-1RacP. IL-1RacP, therefore, appears necessary to link binding of IL-1 to its receptor on the plasma membrane to downstream signaling events culminating in the activation of transcription factor NF-κB which then promotes the expression of a number of pro-inflammatory genes in the nucleus.

IL-1RacP is a 570-amino acid protein of ~66 kDa. It is a member of the immunoglobulin superfamily and bears limited homology throughout the protein of both Type I and Type II IL-1 receptors. Sequence analysis reveals that IL-1RacP contains a protein kinase C docking site and a putative GTPase domain. IL-1RacP mRNA is expressed in a wide range of cell types, and its expression correlates with IL-1 responsiveness. Highest amounts are found in liver and hypothalamus.

**Reagent**
Supplied at 0.5 mg/ml in phosphate buffered saline, containing 0.02% sodium azide.

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**
Antibody can be stored at 2-8 °C for three months and at −20 °C for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Product Profile**
**Immunoblotting:** the recommended working concentration is 0.5-1 µg/ml using total HeLa cell lysates. A band of ~66 kDa is detected.

**Note:** In order to obtain best results and assay sensitivities in different techniques and preparations, we recommend determining optimal working dilutions by titration test.

**References**
3. Wesche, H., et al., The interleukin-1 receptor accessory protein (IL-1RacP) is essential for IL-1 induced activation of interleukin-1 receptor associated kinase (IRAK) and stress-activated protein kinases (SAP Kinases). *J. Biol. Chem.*, 272, 7727-7731 (1997).

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