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

Catalog Number I8153

Synonym: Anti-IL-1RAcP

Product Description
Anti-Interleukin-1 Receptor Accessory Protein is produced in rabbit using a synthetic peptide corresponding to amino acids 525-540 of human interleukin-1 receptor accessory protein as immunogen. This sequence is identical to that of mouse and rat origin. 

Anti-IL-1RAcP recognizes IL-1RAcP from human, mouse, or rat tissues by immunoblotting (66 kDa). There is no cross-reactivity to other members in the IL-1 and IL-18 receptor families.

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.

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 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).