

Recombinant Mouse Il1rap Protein, Myc/DDK-tagged

Cat. No. Il1rap-3508M Lot. No. (See product label)

SPECIFICATION

Product Overview

Purified recombinant protein of mouse full-length interleukin 1 receptor accessory protein (Il1rap), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species

Mouse

Source

HEK293

Description

Coreceptor for IL1RL2 in the IL-36 signaling system. Coreceptor with IL1R1 in the IL-1 signaling system. 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. Coreceptor for IL1RL1 in the IL-33 signaling system. Can bidirectionally induce pre- and postsynaptic differentiation of neurons by trans-synaptically binding to PTPRD. May play a role in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells.

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Molecular Mass	41.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Il1rap interleukin 1 receptor accessory protein [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il1rap
Synonyms	IL1RAP; interleukin 1 receptor accessory protein; interleukin-1 receptor accessory protein; IL-1 receptor accessory protein; AI255955; AV239853; IL-1RAcP; 6430709H04Rik
Gene ID	16180
mRNA Refseq	NM_134103
Protein Refseq	NP_598864
UniProt ID	Q61730

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