

DESCRIPTION

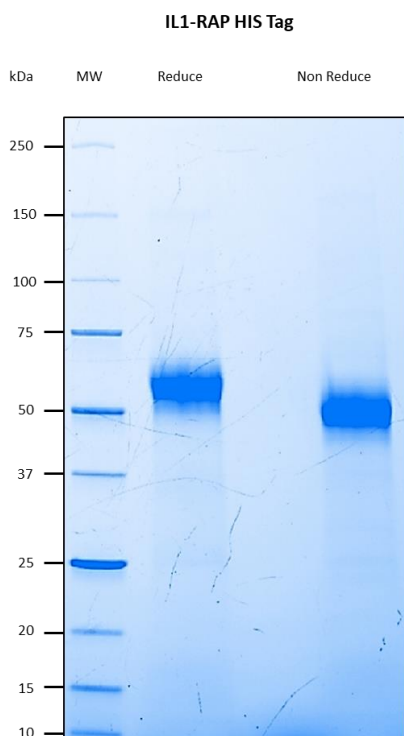
<i>Description</i>	Recombinant Human Interleukin-1 Receptor Accessory Protein – IL-1RAP (CHO)
<i>Sequence</i>	Native NCBI Accession Number: Q9NPH3.2 Ser21-Glu359 (Extra cellular domain)
<i>Expression system</i>	CHO cells
<i>Tag</i>	HIS Tag C-Terminus
<i>Purification</i>	Affinity chromatography
<i>Extinction coefficient</i>	61475 M ⁻¹ .cm ⁻¹ Abs 0.1% (=1 g/l) 1.53 assuming all pairs of Cys residues form cystines
<i>Predicted Molecular Weight</i>	40 kDa

SPECIFICATIONS

<i>SDS Page</i>	Approx. 50 kDa (due to glycosylation)
<i>Concentration</i>	1 mg/ml
<i>Size</i>	100 µg
<i>Purity</i>	>95% by SDS PAGE gel
<i>Formulation</i>	PBS
<i>Activity</i>	Recognized by anti IL-1RAP (B-L43) in ELISA
<i>Stability and Storage</i>	Store at -20°C. Avoid repeated freeze-thaw cycles

DATA

SDS-PAGE 4-15% under reducing and non-reducing conditions visualized by Coomassie blue staining showing a band at approx. 55 and 50 kDa



HUMAN IL-1RAP

IL-1 Receptor Accessory Protein (IL-1RAP), also known as interleukin-1 receptor member 3 (IL-1 R3), is a member of the Interleukin-1 receptor family of proteins. The IL-1RAP protein is a coreceptor of the IL-1 (alpha and beta), IL-33 and IL-36 receptors involved in IL-1 signalling, activating different signalling pathways implicated in inflammation and proliferation (1). IL1-RAP is critical for mediating the effects of IL-33, through the ST2/IL1RAP complex, and IL-36, through the IL-1Rrp2/IL-1RAP complex (2)

Human IL-1RAP is composed of 3 domains: an extracellular domain (ECD, 347 AA), a transmembrane part (21 AA), and a cytoplasmic domain (182 AA).

IL-1RAP has been identified as a marker of interest in the context of Chronic Myeloid Leukemia (CML) treatment, activating NK Cells and blocking tumor growth. Its overexpression is demonstrated in Hematopoietic Stem and Progenitor Cells (HSPC) and also in Acute Myeloid Leukemia (AML) disease (3)

BIBLIOGRAPHY

- (1) Guay S et al. Distinct expression of the soluble and the membrane-bound forms of interleukin-1 receptor accessory protein in the endometrium of women with endometriosis. *Fertil. Steril.* 2011 Mar 15;95(4):1284-90.
- (2) Garlanda et al. The interleukin-1 family: back to the future. *Immunity*, 2013 Dec. 12;39(6):1003-18.
- (3) Warda W. et al. CML Hematopoietic Stem Cells Expressing IL-1RAP Can Be Targeted by Chimeric Antigen Receptor-Engineered T Cells. *Cancer Res.* 2019 Feb 1;79(3):663-675.

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