

Human IL22BP / IL22RA2 Protein (His Tag)

Catalog Number: 11025-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

CRF2-10; CRF2-S1; CRF2X; IL-22BP; IL-22R-alpha-2; IL-22RA2; ZCYTOR16; CRF2-10; CRF2-s1; CRF2X; IL-22bp

Protein Construction:

A DNA sequence encoding the human IL22RA2 isoform 2 (NP_851826.1) (Met 1-Pro 231) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Immobilized IL22BP-His at 10 µg/ml (100 µl/well) can bind biotinylated IL22 (Cat:13059-HNAE), The EC₅₀ of biotinylated IL22 (Cat:13059-HNAE) is 1.78-4.14 ng/ml.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Thr 22

Molecular Mass:

The secreted recombinant human IL22RA2 comprises 221 amino acids with a predicted molecular mass of 26.1 kDa. As a result of glycosylation, rh IL22RA2 migrates as an approximately 50-55 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

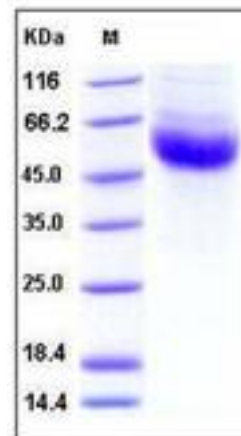
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Interleukin-22 receptor subunit alpha-2 (IL-22RA2), also known as interleukin-22-binding protein (IL-22BP), is a subunit of the receptor for interleukin 22. IL-22BP belongs to the type I cytokine receptor family and contains 3 fibronectin type-III domains. IL-22BP/IL-22RA2 is expressed in a range of tissues, including those in the digestive, female reproductive, and immune systems. It is expressed in placenta, spleen, breast, skin and lung. It is also detected in intestinal tract, testis, brain, heart and thymus. The dominant cell types expressing IL-22BP/IL-22RA2 were mononuclear cells and epithelium. IL-22BP/IL-22RA2 may play an important role as an IL-22 antagonist in the regulation of inflammatory responses. Interleukin-22 (IL-22) is a member of IL-10 family. It is produced by T cells and induces the production of acute-phase reactants. IL-22 plays important roles in immune response through activation of the STAT 3 signal transduction pathway. Two types of IL-22-binding receptor have been discovered, a membrane-bound receptor and a soluble receptor.

References

1. Whittington HA, *et al.* (2004) Interleukin-22: a potential immunomodulatory molecule in the lung. *Am J Respir Cell Mol Biol.* 31(2): 220-6.
2. Dumoutier L, *et al.* (2001) Cloning and characterization of IL-22 binding protein, a natural antagonist of IL-10-related T cell-derived inducible factor/IL-22. *J Immunol.* 166(12): 7090-5.
3. Wei CC, *et al.* (2003) Cloning and characterization of mouse IL-22 binding protein. *Genes Immun.* 4(3): 204-11.

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