

Product datasheet

Recombinant Pig IL-4R protein (His tag) ab238221

1 Image

Description

Product name	Recombinant Pig IL-4R protein (His tag)	
Purity	> 85 % SDS-PAGE.	
Expression system	Escherichia coli	
Accession	Q863Z5	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Pig	
Sequence	VRVLEWPICLSDYVSTSTCEWRMAGPVNCSAEFRLSYQL KFFNTENHTTC VPENRAGSVCVCHMLMESIVMDTYQLDLWAGEQLLWNS SFKPSQNVKPL APRNLMVHANISHTWLLTWSNPYPSESYLYSELTYLVNISN ENDPTDFRI YNVTYLGPTLRFPANTLKSGAAYSARVKAWAQRYNSTWS EWSPSVKWLNY YEEPLEQR	
Predicted molecular weight	28 kDa including tags	
Amino acids	33 to 240	
Tags	His tag N-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab238221** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Function

Receptor for both interleukin 4 and interleukin 13. Couples to the JAK1/2/3-STAT6 pathway. The IL4 response is involved in promoting Th2 differentiation. The IL4/IL13 responses are involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation. In certain cell types, can signal through activation of insulin receptor substrates, IRS1/IRS2.

Soluble IL4R (sIL4R) inhibits IL4-mediated cell proliferation and IL5 up-regulation by T-cells.

Tissue specificity

Isoform 1 and isoform 2 are highly expressed in activated T-cells.

Sequence similarities

Belongs to the type I cytokine receptor family. Type 4 subfamily.

Contains 1 fibronectin type-III domain.

Domain

The extracellular domain represents the IL4 binding protein (IL4BP).

The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

The box 1 motif is required for JAK interaction and/or activation.

Contains 1 copy of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.

Post-translational modifications

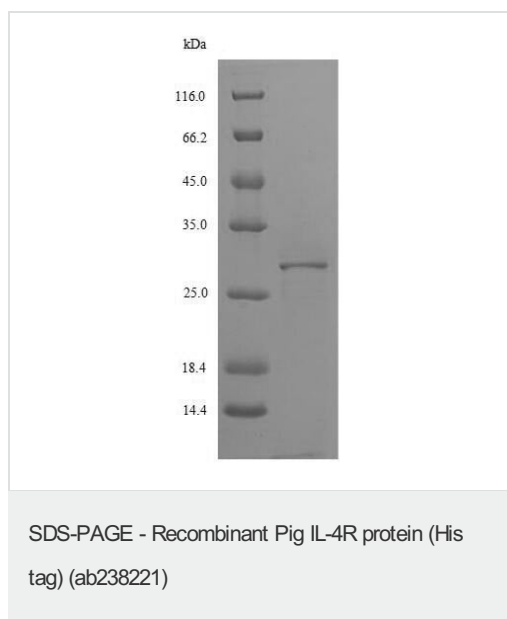
On IL4 binding, phosphorylated on C-terminal tyrosine residues. Phosphorylation on any one of tyrosine residues, Tyr-575, Tyr-603 or Tyr-631, is required for STAT6-induced gene induction.

The soluble form (sIL4R/IL4BP) can also be produced by proteolytic cleavage at the cell surface (shedding) by a metalloproteinase.

Cellular localization

Secreted and Cell membrane.

Images



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab238221.

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