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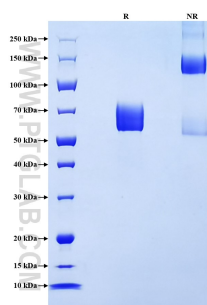
# Recombinant Human IL-4 R alpha/CD124 protein (rFc Tag)



Catalog Number: Eg1684

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human IL-4 R alpha protein Met26-His232 (Accession# P24394-1) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 3566</p> <p><b>Accession:</b> P24394-1</p> <p><b>Predicted Molecular Mass:</b> 50.0 kDa</p> <p><b>SDS-PAGE:</b> 55-75 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>IL-4 receptor alpha chain (IL-4RA), also known as CD124, is a transmembrane glycoprotein expressed on a wide variety of hematopoietic and non-hematopoietic cells. It is a receptor for both IL-4 and IL-13. IL-4RA can complex with the common gamma chain (IL-2R gamma or CD132) and utilizes JAK1 and JAK2 for signal transduction, while complexes of IL-4RA with IL-13RA1 subunit mediate signals via JAK2 and Tyk2. The IL-4 response is involved in promoting Th2 differentiation. The IL-4/IL-13 responses are involved in regulating IgE production, as well as chemokine and mucus production at sites of allergic inflammation (PMID: 36440951; 23124025; 35934680).</p>		
References	<ol style="list-style-type: none"><li>1. Drube S. et al. (2001). Immunology. 169(1):102-112.</li><li>2. Bhattacharjee A. et al. (2013). Free Radic Biol Med. 54:1-16.</li><li>3. Shankar A. et al. (2022). J Allergy Clin Immunol. 150(2):266-276.</li></ol>		
Synonyms	IL4R, CD124, IL 4 binding protein, IL 4 receptor subunit alpha, IL 4R alpha		

## Selected Validation Data



Purity of Recombinant Human IL-4 R alpha was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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