

Datasheet for ABIN2176981
anti-IL2RG antibody (AA 51-150)

5 Images

[Go to Product page](#)

Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | IL2RG |
| Binding Specificity: | AA 51-150 |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This IL2RG antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS), ELISA |

Product Details

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|-----------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human IL-2R gamma |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Rat |
| Predicted Reactivity: | Mouse,Dog,Cow,Pig |
| Purification: | Purified by Protein A. |

Target Details

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|-------------------|---|
| Target: | IL2RG |
| Alternative Name: | IL-2R gamma (IL2RG Products) |
| Background: | Synonyms: P64, CIDX, IMD4, CD132, SCIDX, IL-2RG, SCIDX1, Cytokine receptor common |

Target Details

subunit gamma, Interleukin-2 receptor subunit gamma, IL-2 receptor subunit gamma, IL-2R subunit gamma, gammaC, IL2RG

Background: Interleukin 2 (IL2) receptor gamma chain (IL5212R gamma) is a cell surface glycoprotein expressed by a variety of leukocytes including T cells, B cells, NK cells, monocytes, macrophages, and neutrophils. IL2R gamma is also known as CD132, common cytokine receptor gamma chain, and gamma c. IL2R gamma forms complexes with other cell surface proteins including CD25 (IL2R alpha), CD122 (IL2R beta), CD124 (IL4R alpha), CD127 (IL7R), and others. IL2R gamma complexed with other cell surface proteins forms receptors for the cytokines IL2, IL4, IL7, IL9, and IL15. Acting through the IL2R gamma containing complexes, these cytokines regulate lymphocyte development and activation. Chemical cross linking experiments reveal that IL2R gamma is able to bind cytokines only when complexed with these other cell surface proteins. In addition to interacting with other cell surface glycoproteins, IL2R gamma associates with several cytoplasmic tyrosine kinases including JAK3 (Janus Kinase 3), JAK1, Syc, and Lys. Cytokine binding to the IL2R gamma containing receptor complexes activates these tyrosine kinases. Once activated, these tyrosine kinases phosphorylate their associated receptors, creating docking sites for signaling molecules such as PI 3 kinase. The activated tyrosine kinases also phosphorylate downstream regulators including STAT3 (Signal Transducer and Activator of Transcription 3), STAT5, and STAT6. The various cytokines that bind to IL2R gamma containing receptor complexes exert their effects through unique repertoires of cytoplasmic signaling molecules. IL2, IL7, and IL9 exert their effects through cascades, which activate STAT3 and STAT5, while IL4 activates STAT6. IL2 and IL15 exert their effects through cascades, which activate the MAP kinase cascade. IL7 exerts its effects through a cascade that results in VDJ immunoglobulin gene rearrangement.

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| Gene ID: | 3561 |
| UniProt: | P31785 |
| Pathways: | JAK-STAT Signaling , Growth Factor Binding |

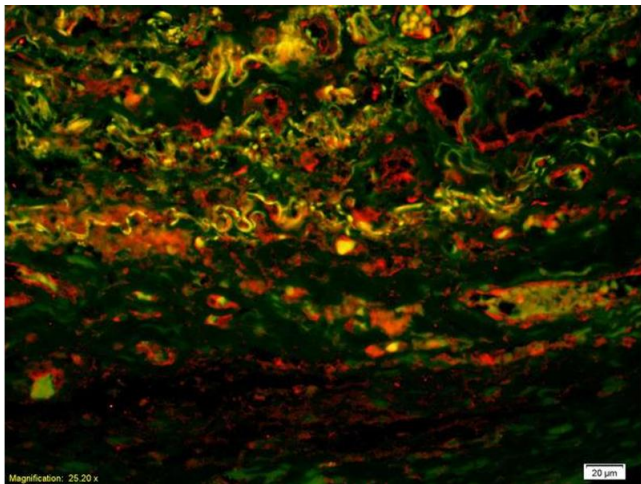
Application Details

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|--------------------|---|
| Application Notes: | WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 |
| Restrictions: | For Research Use only |

Handling

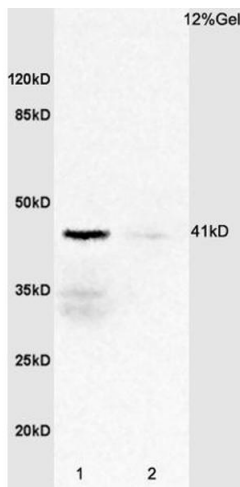
| | |
|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 µg/µL |
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

Images



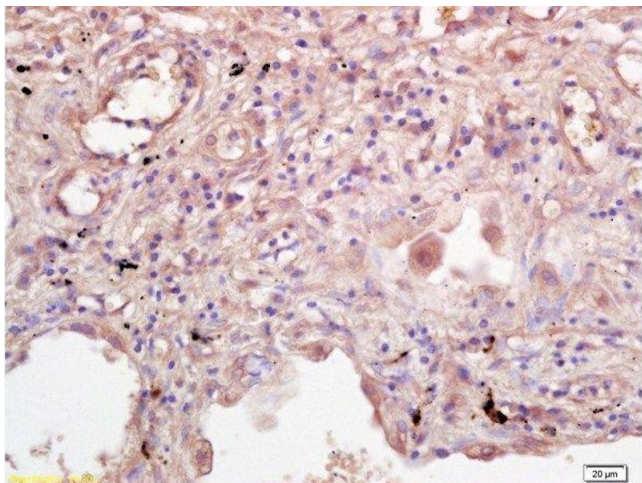
Immunofluorescence

Image 1. Formalin-fixed and paraffin-embedded human lung labeled with Anti-IL-2R gamma Polyclonal Antibody, Unconjugated used at 1:200 dilution for 40 minutes at 37°C.



Western Blotting

Image 2. L1 rat spleen lysates L2 mouse heart lysates probed with Anti IL-2R gamma/CD132 Polyclonal Antibody, Unconjugated at 1:3000 for 90 min at 37°C. Predicted band 41kD. Observed band size:41kD.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded human lung tissue labeled with Rabbit Anti-IL-2R gamma Polyclonal Antibody at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2176981.