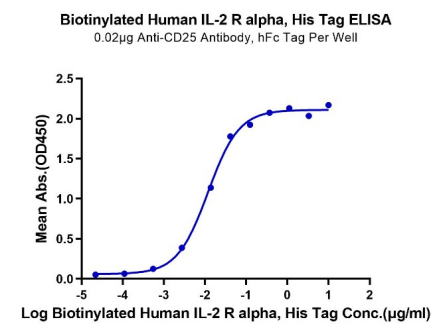
Bioactive CellTx™ HuPro®

# IL2RA (Human) Recombinant Protein (Biotin)

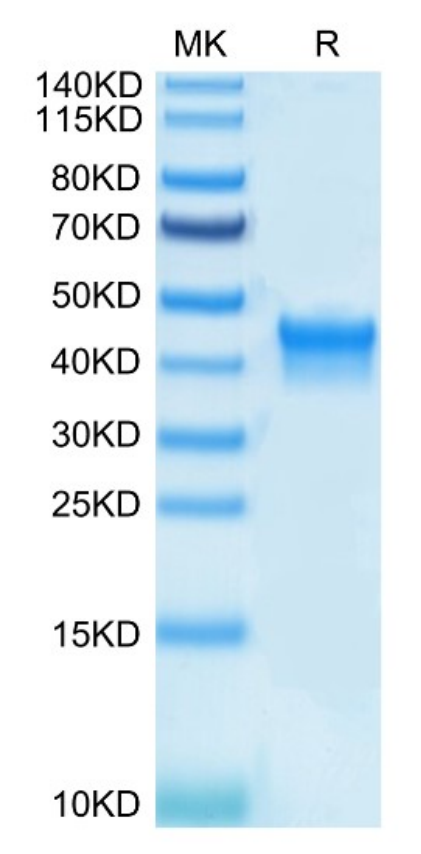
Catalog # P10378 Size 100 ug

## Applications




### Enzyme-linked Immunoabsorbent Assay

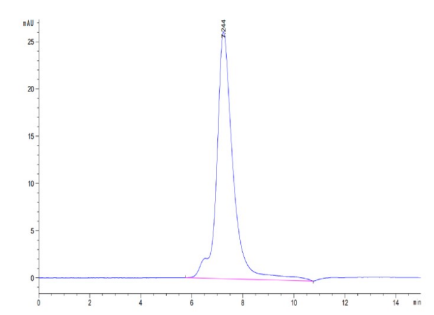
Immobilized Anti-CD25 Antibody, hFc Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Biotinylated Human IL-2 R alpha, His Tag with the $EC_{50}$ of 11.9 ng/mL determined by ELISA.




### Tris-Bis PAGE

Biotinylated Human IL2RA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

Copyright © 2023 Abnova Corporation. All Rights Reserved.



## SEC-HPLC

The purity of Biotinylated Human IL2RA is greater than 95% as determined by SEC-HPLC.

## Specification

| | |
|---|---|
| **Product Description** | Human IL2RA (P01589, Glu22-Cys213) partial recombinant protein with His-Avi tag at the C-Terminus expressed in HEK293 cells. |
| **Sequence** | Glu22-Cys213 |
| **Host** | Human |
| **Theoretical MW (kDa)** | 24.6 |
| **Reactivity** | Human |
| **Form** | Lyophilized |
| **Conjugation** | Biotin |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purity** | > 95% by Tris-Bis PAGE<br>> 95% by HPLC |
| **Endotoxin Level** | < 0.1 EU per 1 ug as determined by the LAL method. |
| **Activity** | The $EC_{50}$ was 11.9 ng/mL, measured by ELISA at 0.2 ug/mL. |
| **Recommend Usage** | Biological Activity<br>ELISA<br>Tris-Bis PAGE<br>SEC-HPLC<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from 0.22 um filtered solution in PBS, pH 7.4. (8% trehalose). |
| **Storage Instruction** | Store at -20°C for 12 months.<br>After reconstitution, store at 4°C for 2-7 days, or store at -80°C for 3-6 months.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Please use within one month after protein reconstitution. |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Anti-CD25 Antibody, hFc Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Biotinylated Human IL-2 R alpha, His Tag with the $EC_{50}$ of 11.9 ng/mL determined by ELISA.

## Gene Info — IL2RA

| | |
|---|---|
| **Entrez GeneID** | 3559 |
| **Protein Accession#** | P01589 |
| **Gene Name** | IL2RA |
| **Gene Alias** | CD25, IDDM10, IL2R, TCGFR |
| **Gene Description** | interleukin 2 receptor, alpha |
| **Omim ID** | 147730 601942 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity r eceptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determine d to result from extracellular proteolyisis. Alternately-spliced IL2RA mRNAs have been isolated, b ut the significance of each is presently unknown. [provided by RefSeq |
| **Other Designations** | Interleukin-2 receptor\|OTTHUMP00000019030\|OTTHUMP00000044870\|interleukin 2 receptor, al pha chain |

## Pathway

- Cytokine-cytokine receptor interaction
- Endocytosis
- Hematopoietic cell lineage
- Jak-STAT signaling pathway

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## Disease

- Acquired Immunodeficiency Syndrome
- Addison Disease
- Alopecia Areata
- Alzheimer Disease
- Arthritis
- Asthma
- Atrial Fibrillation
- Autoimmune Diseases
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Colitis
- Connective Tissue Diseases
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Graves Disease
- Hyperparathyroidism
- Hypersensitivity

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Infant
- Infection
- Inflammation
- Lupus Erythematosus
- Measles
- Melanoma
- Multiple Sclerosis
- Mumps
- Musculoskeletal Diseases
- Obstetric Labor
- Prediabetic State
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostatic Neoplasms
- Respiratory Syncytial Virus Infections
- Rubella
- Skin Diseases
- Thyroid Diseases
- Vasculitis
- Vitiligo

Copyright © 2023 Abnova Corporation. All Rights Reserved.