



Human Cytokine receptor common subunit gamma(IL2RG) ELISA kit

Product Code	CSB-EL011651HU
Abbreviation	IL2RG
Protein Biological Process 1	Immunity
Target Name	interleukin 2 receptor, gamma (severe combined immunodeficiency)
Uniprot No.	P31785
Alias	CD132, IMD4, SCIDX, SCIDX1, common cytokine receptor gamma chain interleukin 2 receptor gamma chain interleukin 2 receptor, gamma
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Host-virus interaction
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	IL2RG
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human IL2RG ELISA Kit was designed for the quantitative measurement of Human IL2RG protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	The interleukin 2 (IL2) receptor gamma chain (IL2RG), an important signalling component of many interleukin receptors (IL2,IL4,IL7,IL9, and IL15), is thus referred to as the common gamma chain. Mutations in this X-chromosome-linked gene cause X-linked severe combined immunodeficiency (XSCID).



Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human IL2RG in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	97
1:1	Range %	91-102
	Average %	95
1:2	Range %	90-101
	Average %	90
1:4	Range %	85-99
	Average %	84
1:8	Range %	80-92

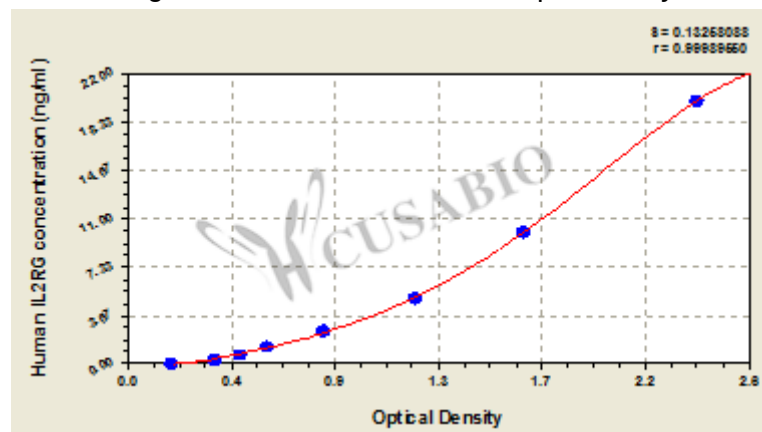
Recovery

The recovery of human IL2RG spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	99	94-105
EDTA plasma (n=4)	92	88-96

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
20	2.335	2.401	2.368	2.172
10	1.648	1.658	1.653	1.457
5	1.191	1.214	1.203	1.007
2.5	0.812	0.836	0.824	0.628
1.25	0.588	0.598	0.593	0.397
0.625	0.475	0.486	0.481	0.285
0.312	0.367	0.389	0.378	0.182
0	0.197	0.194	0.196	?

**Msd**s

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