



Human Integrin alpha-2(ITGA2) ELISA kit

Product Code	CSB-EL011864HU
Abbreviation	ITGA2
Protein Biological Process 1	Cell Adhesion
Target Name	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
Uniprot No.	P17301
Alias	BR, CD49B, GPIa, VLA-2, VLAA2, integrin alpha 2 platelet antigen Br platelet glycoprotein GPIa platelet glycoprotein Ia very late activation protein 2 receptor, alpha-2 subunit
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.235 ng/mL-15 ng/mL
Sensitivity	0.058 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	Signal Transduction
Gene Names	ITGA2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ITGA2 ELISA Kit was designed for the quantitative measurement of Human ITGA2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.235 ng/mL-15 ng/mL and the sensitivity is 0.058 ng/mL.
Target Details	This gene product belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane glycoproteins composed of a distinct alpha chain and a common beta chain. They are found on a wide variety of cell types including, T cells, fibroblasts and platelets. Integrins are involved in cell adhesion and also participate in cell-surface mediated signalling.



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 ITGA2 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 %	92
1:5	Range %	88-96
	Average %	104
1:10	Range %	100-107
	Average %	92
1:20	Range %	89-96
	Average %	95
1:40	Range %	93-97

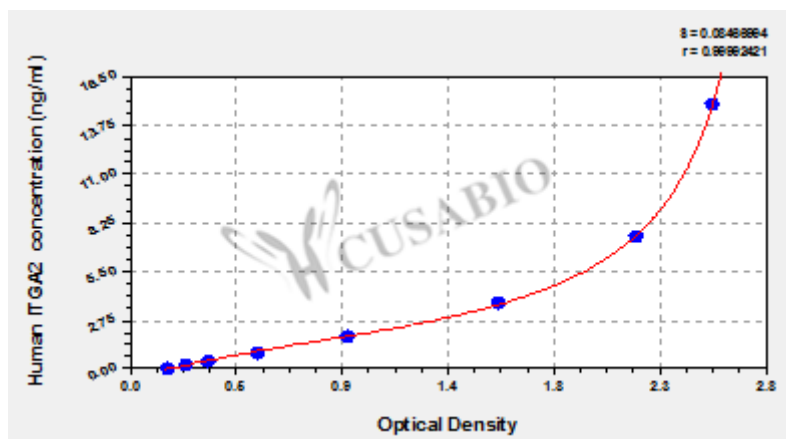
Recovery

The recovery of human ITGA2 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)	98	93-104
EDTA plasma (n=4)	93	90-96

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
15	2.492	2.544	2.518	2.339
7.5	2.150	2.231	2.191	2.012
3.75	1.567	1.625	1.596	1.417
1.88	0.944	0.955	0.950	0.771
0.94	0.548	0.587	0.568	0.389
0.47	0.353	0.352	0.353	0.174
0.235	0.254	0.266	0.260	0.081
0	0.177	0.180	0.179	?

Msds

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