



Human CD81 antigen(CD81) ELISA kit

Product Code	CSB-EL004960HU
Abbreviation	CD81
Protein Biological Process 1	Immunity
Target Name	CD81 molecule
Uniprot No.	P60033
Alias	S5.7, TAPA1, TSPAN28, 26 kDa cell surface protein TAPA-1 CD81 antigen CD81 antigen (target of antiproliferative antibody 1) target of antiproliferative antibody 1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Host-virus interaction
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 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
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5° Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution
Gene Names	CD81



Tag Info	quantitative
Protein Description	Sandwich
Component	<p>A micro ELISA plate ---The 96-well plate has been pre-coated with an anti-Human CD81 antibody.</p> <p>Two vials lyophilized standard ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.</p> <p>One vial Biotin-labeled CD81 antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody.</p> <p>One vial HRP-avidin (100 x concentrate) (120 µl/bottle) ---Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.</p> <p>One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the Biotin-antibody.</p> <p>One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the HRP-avidin solution.</p> <p>One vial Sample Diluent (50 ml/bottle) ---Dilute the sample to an appropriate concentration.</p> <p>One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances.</p> <p>One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.</p> <p>One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow.</p> <p>Four Adhesive Strips (For 96 wells) ---Cover the microplate when incubating.</p> <p>An instruction manual</p>

Description	<p>This Human CD81 ELISA Kit was designed for the quantitative measurement of Human CD81 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.</p>
--------------------	--

Target Details	<p>This protein is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies.</p>
-----------------------	--

Product Precision	<p>Intra-assay Precision (Precision within an assay): CV%<8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%<10%</p> <p>Three samples of known concentration were tested in twenty assays to assess.</p>
--------------------------	--

Linearity	<p>To assess the linearity of the assay, samples were spiked with high concentrations of human CD81 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.</p>
------------------	---



?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	88-101
1:2	Average %	97
	Range %	92-105
1:4	Average %	92
	Range %	87-100
1:5	Average %	95
	Range %	90-100

Recovery

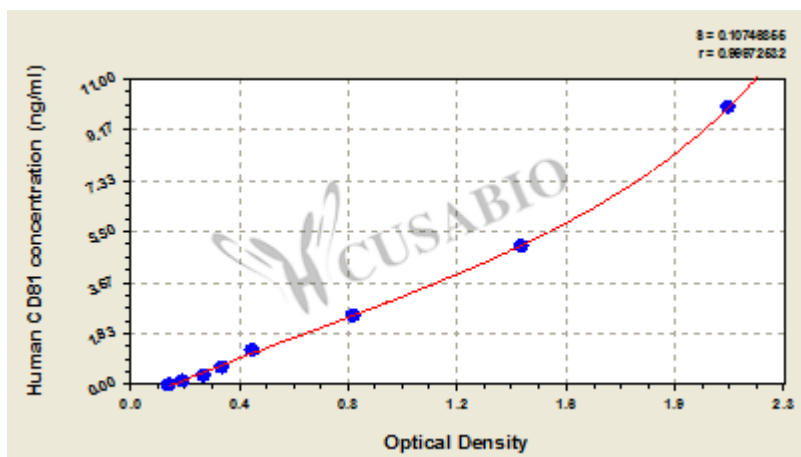
The recovery of human CD81 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	97	95-100
EDTA plasma (n=4)	98	94-102

Sample Type Average % Recovery Range

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
10	2.185	2.064	2.125	1.977
5	1.407	1.381	1.394	1.246
2.5	0.807	0.790	0.799	0.651
1.25	0.451	0.434	0.443	0.295
0.625	0.326	0.352	0.339	0.191
0.312	0.269	0.273	0.271	0.123
0.156	0.197	0.204	0.201	0.053
0	0.149	0.146	0.148	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL004960HU.pdf","filename":"MSDS"}}