abcam

Product datasheet

Human 4-1BBL ELISA Kit ab246536

Recombinant SimpleStep ELISA

4 Images

Overview

Product name Human 4-1BBL ELISA Kit

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
supernatant	8			7%

Inter-assay

Sample	n	Mean	SD	CV%
supernatant	3			3.8%

Sample type Cell culture supernatant, Serum, Cit plasma

Assay type Sandwich (quantitative)

Sensitivity 2.2 pg/ml

Range 6.25 pg/ml - 400 pg/ml

Recovery

Sample specific recovery

Sample type	Average %	Range
Cell culture supernatant	101	99% - 104%
Serum	88	86% - 89%
Cit plasma	92	90% - 94%

Assay time 1h 30m

Assay duration One step assay

Species reactivity **Reacts with:** Human

Product overview Human 4-1BBL ELISA Kit (ab246536) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of 4-1BBL protein in cell culture supernatant, cit plasma, and serum. It

uses our proprietary SimpleStep ELISA® technology. Quantitate Human 4-1BBL with 2.2 pg/ml sensitivity.

SimpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is recognized by the monoclonal antibody used to coat our SimpleStep ELISA® plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® technology provides several benefits:

- Single-wash protocol reduces assay time to 90 minutes or less
- High sensitivity, specificity and reproducibility from superior antibodies
- Fully validated in biological samples
- 96-wells plate breakable into 12 x 8 wells strips

A 384-well SimpleStep ELISA® microplate (**ab203359**) is available to use as an alternative to the 96-well microplate provided with SimpleStep ELISA® kits.

Platform Pre-coated microplate (12 x 8 well strips)

Properties

Storage instructions Store at +4°C. Please refer to protocols.

Components	1 x 96 tests	10 x 96 tests
10X Human 4-1BBL Capture Antibody	1 x 600µl	1 x 6000µl
10X Human 4-1BBL Detector Antibody	1 x 600µl	1 x 6000µl
10X Wash Buffer PT (ab206977)	1 x 20ml	1 x 200ml
Antibody Diluent 5BI	1 x 6ml	10 x 6ml
Human 4-1BBL Lyophilized Recombinant Protein	2 vials	2 x 10 vials
Plate Seals	1 unit	1 x 10 units
Sample Diluent NS (ab193972)	1 x 50ml	2 x 250mg
SimpleStep Pre-Coated 96-Well Microplate (ab206978)	1 unit	1 x 10 units
Stop Solution	1 x 12ml	1 x 120ml
TMB Development Solution	1 x 12ml	1 x 120ml

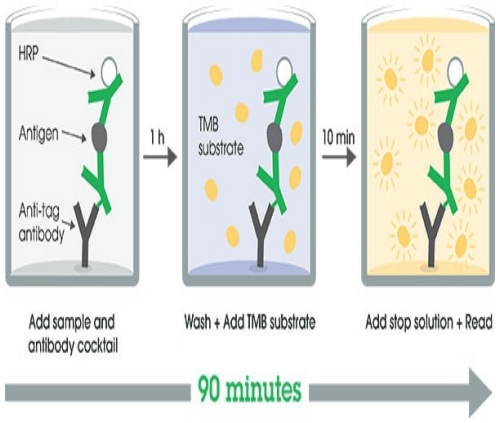
Function Cytokine that binds to TNFRSF9. Induces the proliferation of activated peripheral blood T-cells. May have a role in activation-induced cell death (AICD). May play a role in cognate interactions between T-cells and B-cells/macrophages.

Tissue specificity Expressed in brain, placenta, lung, skeletal muscle and kidney.

Sequence similarities Belongs to the tumor necrosis factor family.

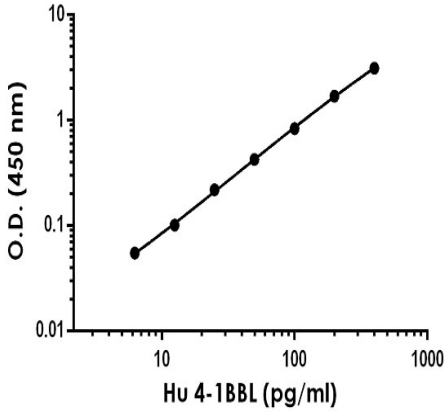
Cellular localization	Membrane.

Images



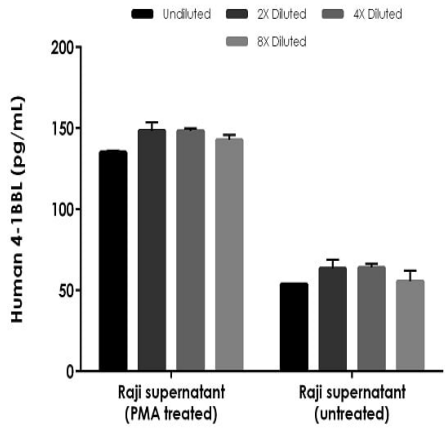
Other - Human 4-1BBL ELISA Kit (ab246536)

SimpleStep ELISA technology allows the formation of the antibody-antigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.



Example of human 4-1BBL standard curve in Sample Diluent NS.

The 4-1BBL standard curve was prepared as described in Section 10. Raw data values are shown in the table. Background-subtracted data values (mean +/- SD) are graphed.



Interpolated concentrations of native 4-1BBL in human cell culture supernatant samples.

The concentrations of 4-1BBL were measured in duplicates, interpolated from the 4-1BBL standard curves and corrected for sample dilution. Undiluted samples are as follows: Raji (PMA treated) cell culture supernatant 50% and Raji (untreated) cell culture supernatant 100%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean 4-1BBL concentration was determined to be 143.7 pg/mL in Raji (PMA treated) cell culture supernatant, and 59.2 pg/mL in Raji (untreated) cell culture supernatant.

Sandwich ELISA - Human 4-1BBL ELISA Kit (ab246536)

To learn more about the advantages of recombinant antibodies see **here**.

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