abcam

Product datasheet

Human PR3 ELISA Kit ab226902

Recombinant SimpleStep ELISA

1 References 6 Images

Overview

Product name Human PR3 ELISA Kit

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Supernatant	8			3.7%

Inter-assay

Sample	n	Mean	SD	CV%
Supernatant	3			11%

Sample type Cell culture supernatant, Cell culture extracts

Assay type Sandwich (quantitative)

Sensitivity 150 pg/ml

Range 1.2 ng/ml - 150 ng/ml

Recovery

Sample specific recovery

Sample type	Average %	Range
Cell culture supernatant	101	90% - 117%
Cell culture extracts	89	87% - 93%

Assay time 1h 30m

Assay duration One step assay

Species reactivity **Reacts with:** Human

Product overview Human PR3 ELISA Kit (ab226902) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of PR3 protein in cell culture extracts and cell culture supernatant. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human PR3 with 150 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.

Notes

Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Platform

Pre-coated microplate (12 x 8 well strips)

Properties

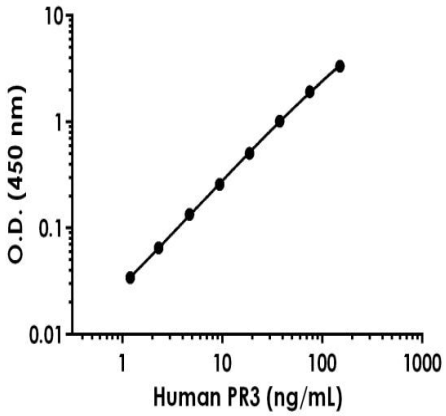
Storage instructions

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

Components	1 x 96 tests
10X Human PR3 Capture Antibody	1 x 600µl
10X Human PR3 Detector Antibody	1 x 600µl
10X Wash Buffer PT (ab206977)	1 x 20ml
50X Cell Extraction Enhancer Solution (ab193971)	1 x 1ml
5X Cell Extraction Buffer PTR (ab193970)	1 x 10ml
Antibody Diluent 4BI	1 x 6ml
Human PR3 Lyophilized Recombinant Protein	2 vials
Plate Seals	1 unit
Sample Diluent NS (ab193972)	1 x 12ml
SimpleStep Pre-Coated 96-Well Microplate (ab206978)	1 unit
Stop Solution	1 x 12ml
TMB Development Solution	1 x 12ml

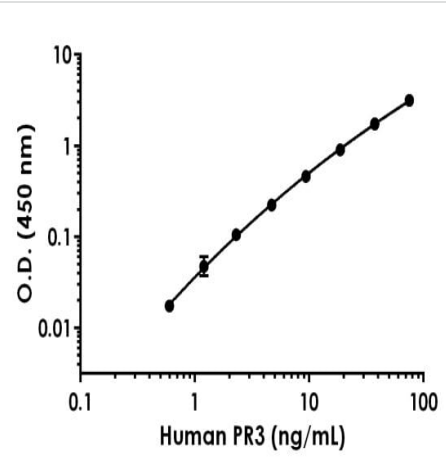
Function	Polymorphonuclear leukocyte serine protease that degrades elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV (in vitro) and causes emphysema when administered by tracheal insufflation to hamsters.
Sequence similarities	Belongs to the peptidase S1 family. Elastase subfamily. Contains 1 peptidase S1 domain.

Images



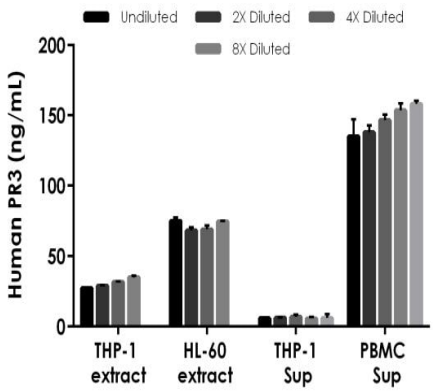
Example of HumanPR3 standard curve in Sample Diluent NS

Background-subtracted data values (mean +/- SD) are graphed.



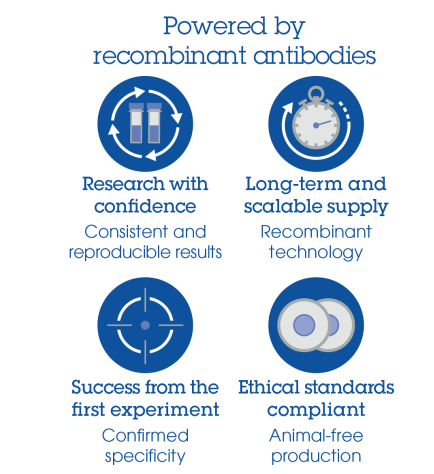
Example of HumanPR3 standard curve in Cell Extraction Buffer PTR

Background-subtracted data values (mean +/- SD) are graphed.



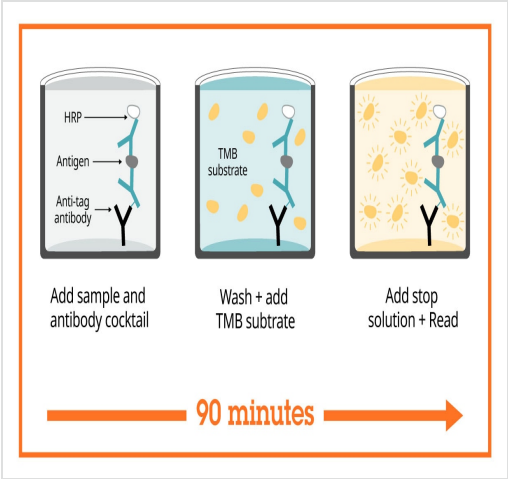
Interpolated concentrations of native PR3 in Human cell extracts and cell culture supernatant samples

The concentrations of PR3 were measured in duplicates, interpolated from the PR3 standard curves and corrected for sample dilution. Undiluted samples are as follows: THP-1 cell extract (100 □g/ml); HL-60 (50 □g/ml); untreated THP-1 cell supernatant (100 %) and untreated Human PBMC supernatant (50%). The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean PR3 concentration was determined to be 24.62 ng/mL in THP-1 cell extract, 72.65 ng/mL in HL-60 cell extract and 6.16 ng/mL in THP-1 supernatant and 146.21 ng/ml in PBMC supernatant.



Sandwich ELISA - Human PR3 ELISA Kit (ab226902)

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



Sandwich ELISA - Human PR3 ELISA Kit (ab226902)

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.

Sandwich ELISA - Human PR3 ELISA Kit (ab226902)

To learn more about the advantages of SimpleStep ELISA® kits see **here**.

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