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Product datasheet

Mouse NOV ELISA Kit (CCN3) ab205570

Recombinant SimpleStep ELISA

1 References   **7 Images**

Overview

Product name	Mouse NOV ELISA Kit (CCN3)
Detection method	Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Overall	5			8.4%

Inter-assay

Sample	n	Mean	SD	CV%
Overall	3			5.9%

Sample type	Cell culture supernatant, Plasma, Cell culture extracts, Tissue Extracts
Assay type	Sandwich (quantitative)
Sensitivity	51 pg/ml
Range	130 pg/ml - 8000 pg/ml

Recovery

Sample specific recovery

Sample type	Average %	Range
Cell culture supernatant	111	107% - 116%
Hep Plasma	85	85% - 85%
EDTA Plasma	88	86% - 88%
Cit plasma	104	103% - 106%
Mouse brain extract	113	108% - 117%

Assay time	1h 30m
Assay duration	One step assay

Species reactivity	Reacts with: Mouse
Product overview	Mouse NOV ELISA Kit (CCN3) (ab205570) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of NOV (CCN3) protein in cell culture supernatant, tissue extracts, plasma, and cell culture extracts. It uses our proprietary SimpleStep ELISA® technology. Quantitate Mouse NOV (CCN3) with 51 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	NOV is a member of the CCN family of extracellular matrix associated signaling proteins. As a secreted protein, NOV regulates cell survival, adhesion, proliferation, differentiation and migration. In humans, NOV expression is associated with metastasis and poor prognosis.

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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 Mouse NOV Capture Antibody	1 x 600µl
10X Mouse NOV 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 4BR	1 x 6ml
Mouse NOV Lyophilized Recombinant Protein	2 vials

Components	1 x 96 tests
Plate Seals	1 unit
Sample Diluent 75BS	1 x 20ml
Sample Diluent NS (ab193972)	1 x 50ml
SimpleStep Pre-Coated 96-Well Microplate (ab206978)	1 unit
Stop Solution	1 x 12ml
TMB Development Solution	1 x 12ml

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Function	Immediate-early protein likely to play a role in cell growth regulation.
Tissue specificity	Expressed in bone marrow, thymic cells and nephroblastoma. Increased expression in Wilms tumor of the stromal type.
Sequence similarities	Belongs to the CCN family. Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 1 IGFBP N-terminal domain. Contains 1 TSP type-1 domain. Contains 1 VWFC domain.
Cellular localization	Secreted.

Images

Add sample and antibody cocktail / Wash + Add TMB substrate / Add stop solution + Read

90 minutes

Other - Mouse NOV ELISA Kit (CCN3) (ab205570)
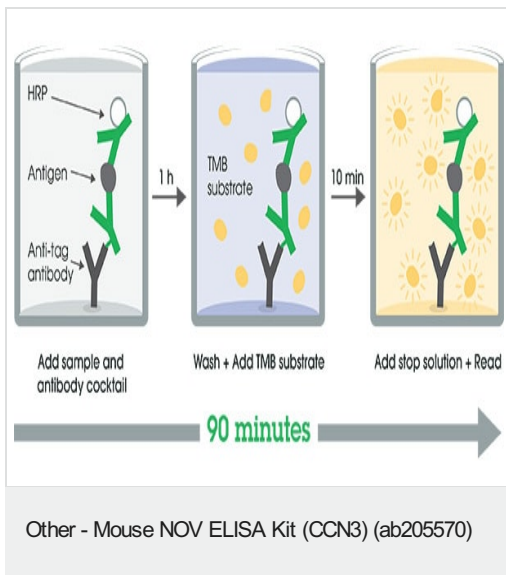
SimpleStep ELISA technology allows the formation of the antibody-antigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.
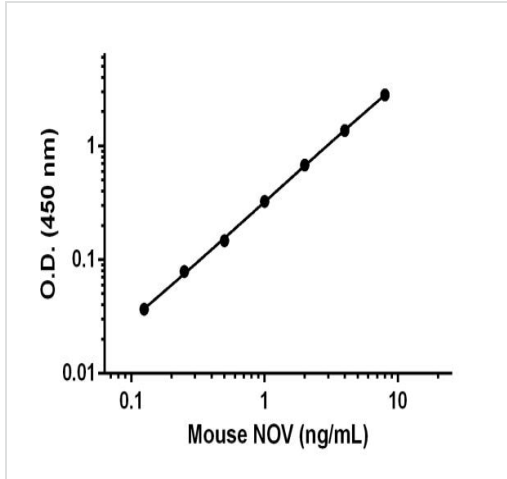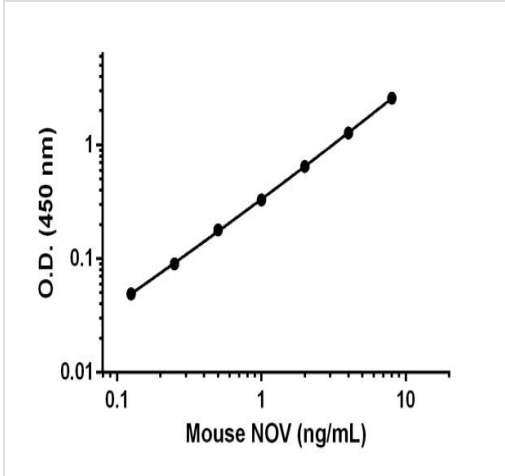
Background-subtracted data values (mean +/- SD) are graphed.

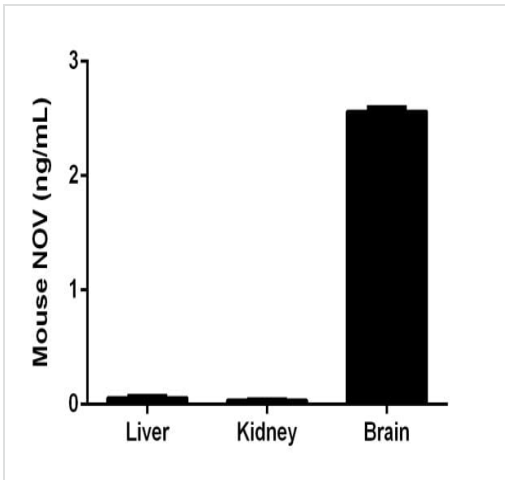Example of mouse NOV standard curve in Sample Diluent NS.
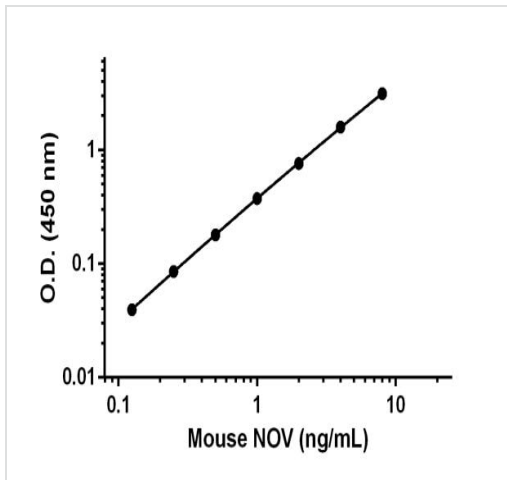
Background-subtracted data values (mean +/- SD) are graphed.

Example of mouse NOV standard curve in 1X Cell Extraction Buffer PTR.

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

Example of mouse NOV standard curve in Sample Diluent 75BS.

The concentrations of mouse NOV were interpolated from the mouse NOV standard curve and corrected for sample dilution. The interpolated dilution factor corrected values are plotted. Interpolated values of NOV are plotted based on an extract load of 250 µg/mL.

Linearity of dilution of native mouse NOV protein in mouse tissue extracts.
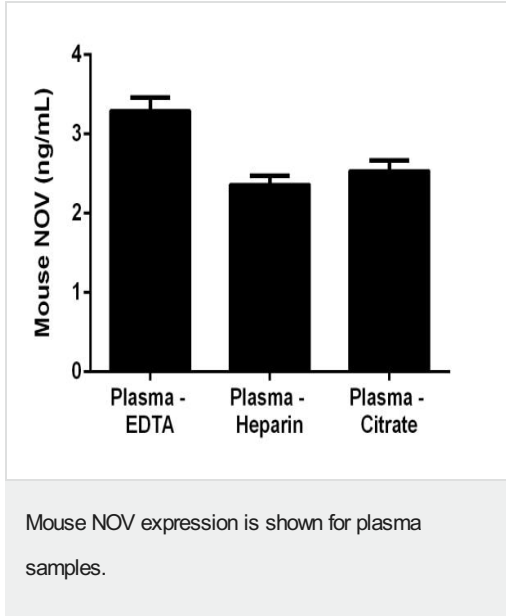
Native NOV was measured in duplicate in 50% EDTA, heparin and citrate plasma diluted in Sample Diluent 75BS and concentrations interpolated from a standard curve diluted in Sample Diluent 75BS. The interpolated dilution factor corrected values are graphed (mean +/- SD).

Mouse NOV expression is shown for plasma samples.

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

Sandwich ELISA - Mouse NOV ELISA Kit (CCN3) (ab205570)

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