Your Comp
Analysis So

At ProteinSimple, we're changing the way scientists analyze proteins. Our innovative product portfolio helps researchers reveal new insight into proteins, advancing their understanding of protein function. We enable cutting-edge research to uncover the role of proteins in disease and provide novel approaches to develop and analyze protein-based therapeutics. We empower you to make your next discovery by eliminating common protein analysis workflow challenges.

many challenges—labor-intensive protocols increase time to result and
rease user error and data variability. At best, you end up with Western
esults when what you really need, and deserve, is highly reproducible

ysis problem solver. Jess automates the protein separation and immunodetection
ng, eliminating many of the tedious, error-prone steps. Just load your samples
plate, and Jess does the rest. She separates your protein by size and precisely
s, incubations, washes and even the detection steps. Come back to fully analyzed
st 3 hours. With Jess's chemiluminescent detection you'll get picogram-level
nize the data you get from your sample. Go further with multiplexing—her fluorescent
nation you need in one shot. Best of all, you get reliable and reproducible results
the amount of protein loaded.

identify whether a protein is present or absent? Jess gives you the qualitative
sed to seeing. Even better, she'll quantitate the results for you too. With just a few
munoassay-like standard curves and precisely quantifying your protein. Jess, she's like
one.

How can Jess help you?

REPRODUCIBLE

Jess precisely controls sample loading, incubations and washes; she eliminates the inconsistencies and user-dependent variability that can be introduced during traditional Westerns. She delivers intra-assay CVs <15%, giving you the consistency you need to be confident in your data.

HIGH THROU

With her 13 and
cartridges, you'
you need, with
time. Use Jess's
and multiplex y
higher through

FAST

With Jess, it's pipette, run and done! Simply load your sample, antibodies and reagents into the plate, insert your plate and cartridge into Jess and press start. In just 3 hours of hands-free runtime, you can be analyzing data for your next publication or grant.

QUANTITATIV

With Jess, prote
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dive deep for fu
protein size and
clicks, you'll be
standard curves
your protein.

Do protein analysis your way, quickly.

DIFFERENT WAYS

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n gives you picogram-level
mize the data you get from

o see if your samples contain
ust load her in-capillary protein
her assay plate and she'll
prietary fluorescent protein
sures proteins immobilized in
mmunoassay. Best of all, Jess's
ies enable two-color protein
nd chemiluminescent detection,
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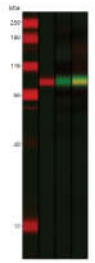
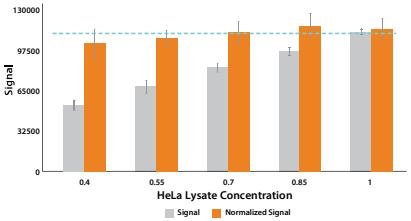
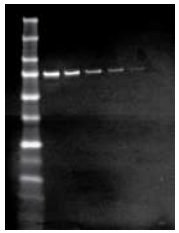
rns? Snap! Get the picture
tem.



Jess's fluorescent detection capabilities enable two-color protein detection for multiplexing. Detection of Stat3 (green) and phospho-Stat3 (red) in K562 cell lysate. Lane 1: ladder; Lane 2: phospho-Stat3; Lane 3: Stat 3; Lane 4: phospho-Stat3/Stat3.



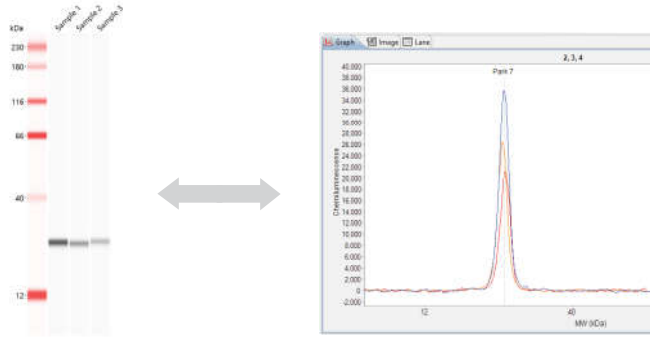
With protein normalization, you can take your protein load comparison and transform your data to effectively normalize your samples, increasing your confidence in your data interpretation.



Jess's imaging system allows for imaging of traditional Western blotting membranes.

Stop, analyze and wow!

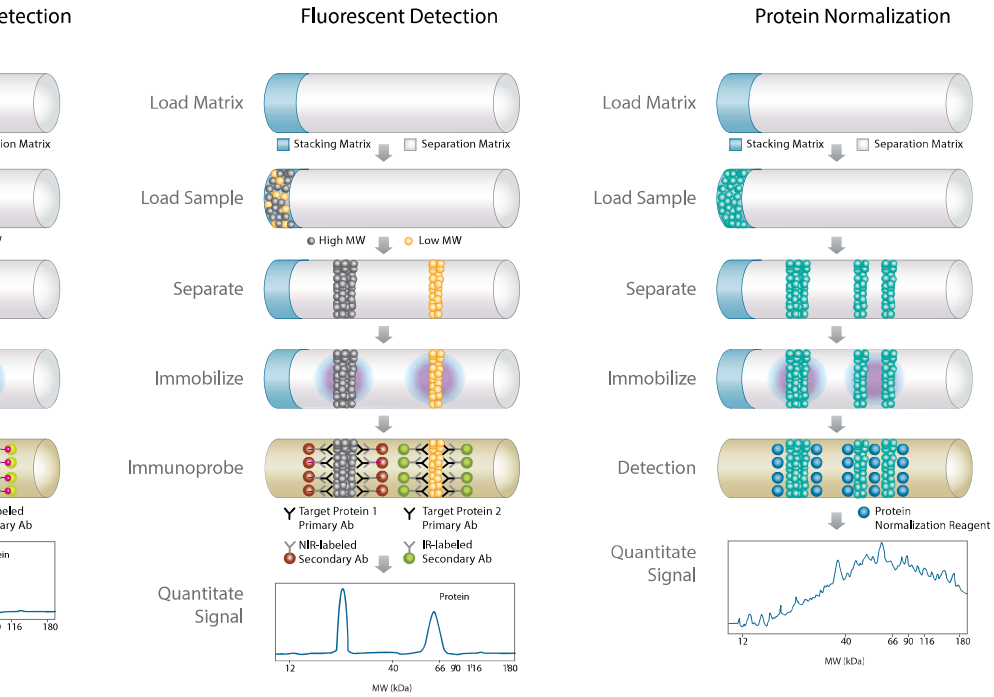
At the end of your run, use the lane view option to compare band intensity or dive d
analysis of protein size and concentration. Dive deeper to compare protein expressio
protein isoforms or size changes. Want to analyze expression changes between sam
Jess's protein normalization will give you the confidence you need in your analysis.



Peaks | Capillaries

Sample	Primary	Secondary	Cap	Peak	Name	Position	MW (kDa)	Height	Area	% Area	Width
Hela Lysate	Park 7	GAM	2	1	Park 7	311	27	35508.8	316798	50.0	8.4
Hela Lysate	Park 7	GAM	3	1	Park 7	307	27	25799.8	228724	50.0	8.3
Hela Lysate	Park 7	GAM	4	1	Park 7	306	27	20867.5	193841	50.0	8.7

ss work?



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Specifications

DESCRIPTION	TOTAL PROTEIN SPECIFICATION	CHEMILUMINESCENCE SPECIFICATION	FLUORESCENCE SPECIFICATION
Sample required	0.3-1.2 µg	0.6-1.2 µg	2-4 µg
Volume required	3 µL/well		
Size range	Molecular weight (MW) ladder ranges from 2–440 kD		
Sizing CV	<10%		
Intra-assay CV	<15%		
Inter-assay CV	<20%		
Resolution (± percent difference in MW)	± 15–20% for MW <20 kDa ± 10% for MW >20 kDa		
Quantitation CV	<20% (total protein, chemiluminescence and fluorescence)		
Dynamic range	2-3 logs	3-4 logs	3-4 logs
Sensitivity	ng	Low pg	High pg
Capillary	5 cm, 100 µm, 400 nL		
Runtime	<3 hours		
Samples per run	13 or 25		
Weight	23 kg		
Dimensions (closed)	0.36 M H X 0.3 M W X 0.57 M D		
Dimensions (open)	0.36 m H x 0.53 m W x 0.57 m D		
Power	US/CAN 120 V AC, 60 Hz, 4.2 amps Europe 240 AC, 50 Hz, 2.1 amps Japan 100 AC, 50/60 Hz, 5.0 amps		
Operating temperature	18–24 °C		
Operating humidity	20-60% relative, non-condensing		