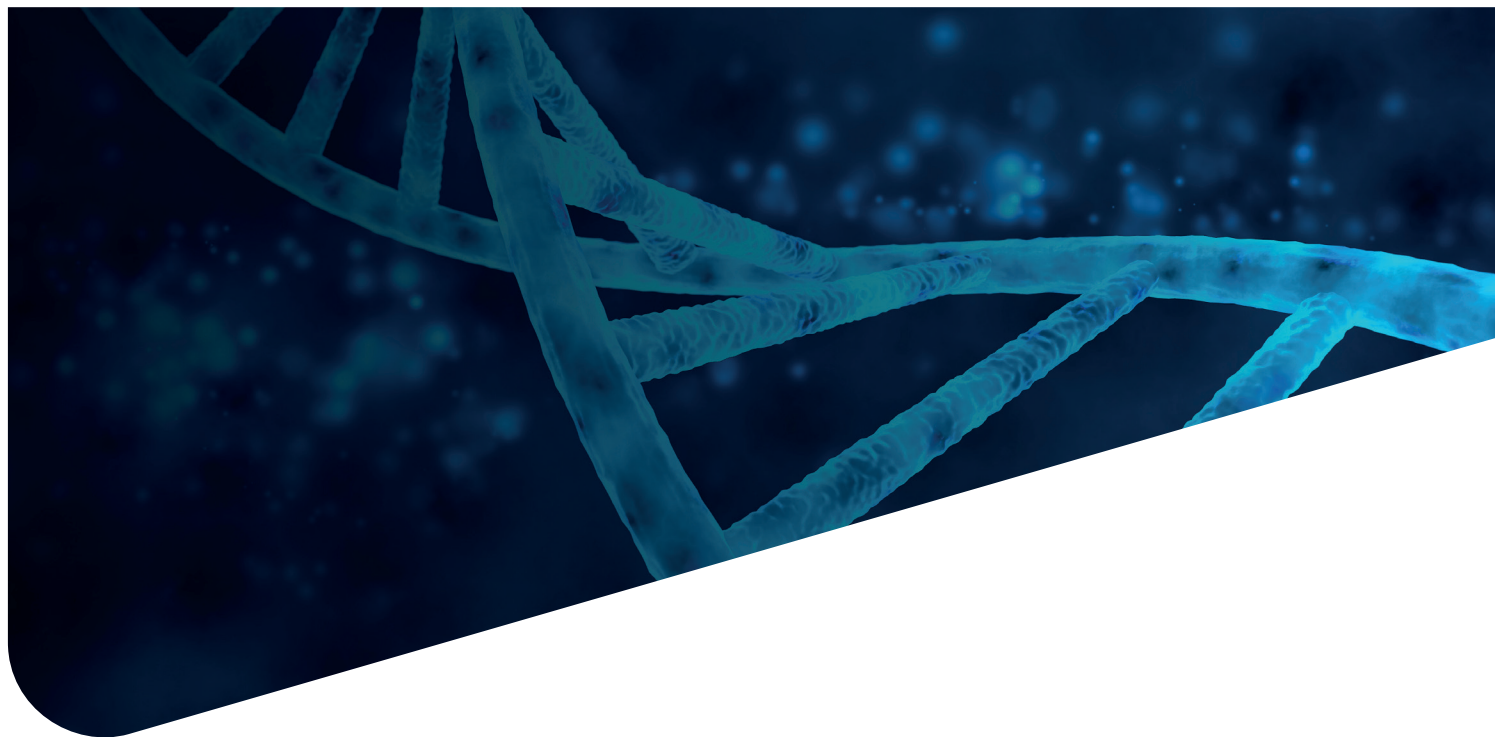




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e.g. technique, organism, antibody...

1

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Springer Protocols (2024)

Series: Methods In Molecular Biology

Protocol

The Characteristics of Human iPS Cells and siRNA Transfection Under Hypoxia

Kouji Sugimoto, Yoshihiko Hayashi

The characteristics of pluripotent cells have great potential for basic and clinical research and

Springer Protocols

Nature Protocols

Nature Methods

2

Nature Reviews Methods Primers

Protocols & Methods

Overview

Research

Primers

News

65943

11758

2377

136

2487

3

Find, Evaluate and Implement

Optimize your lab experiments by using our at-a-glance experimental specifications like technique, organism, cell line, antibody, reagents, and supplier information.

Techniques

Organisms

Cell Lines

Antibodies

4

Explore Topics

5

Delve into individual topics and related areas, curated from the latest research trends.

Molecular Biology

Sucrose Density Gradient Centrifugation

ChIP-seq

Recombinant Protein Expression

TRAP Assay

High-Throughput Sequencing

Single-molecule Assay

Western Blot

In Situ Hybridization

PCR

Fmoc Test

CRISPR

Cross-linking

Inverse PCR

Microscopy

Machine Learning

Two-photon Microscopy

Super-resolution Microscopy

Freeze Fracture Technique

Calcium Imaging

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Cytotoxicity MTT Assay

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3D Cell Culture

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5 按照主题探索

按照技术浏览实验方案和方法

从分子技术，到显微镜技术、细胞和组织培养，以及光谱学，我们的技术主题页面汇集了所有关于最新和最有影响力的研究技术的知识。无论您是了解某种特定的技术，还是探索最新的发展，您都可以在这些页面上找到相关的内容。

SPRINGER NATURE Experiments e.g. technique, organism, antibody...

CRISPR Protocols And Methods

Recently cited | Recently published | Review papers | Related techniques

Engineering.

Recently cited 1

Nature Protocols (2013) Protocol

Genome engineering using the CRISPR-Cas9 system

F Ann Ran, Patrick D Hsu, Jason Wright, Vineeta Agarwala ... Feng Zhang

Targeted nucleases are powerful tools for mediating genome alteration with high precision. The RNA-guided Cas9 nuclease from the microbial clustered regularly interspaced short palindromic repeats (CRISPR) adaptive immune system can be used to ...more

Recently published 2

Springer Protocols (2023) Protocol

CRISPR/Cas9-Mediated Gene Knockout and Knockin Human iPSCs

Paolo Petazzi, Pablo Menéndez, Ana Sevilla

The realization of the full potential of human pluripotent stem cells (hPSCs), including human induced PSCs (iPSC), relies on the ability to precisely edit their genome in a locus-specific and multiplex manner. Clustered Regularly Interspaced Short ...more

Review papers 3

Springer Protocols (2015) Overview

Annotation and Classification of CRISPR-Cas Systems

Kira S. Makarova, Eugene V. Koonin

The clustered regularly interspaced short palindromic repeats (CRISPR)-Cas (CRISPR-associated proteins) is a prokaryotic adaptive immune system that is represented in most archaea and many bacteria. Among the currently known prokaryotic defense ...more

Related Techniques 4

CRISPR occurring with **Transfection**

Springer Protocols (2023) Protocol

Functional Analysis of Variants in BRCA1 Using CRISPR Base Editors

Ji-Eun See, Yongsub Kim

To date, methods such as fluorescent reporter assays, embryonic stem cell viability assays, and therapeutic drug-based sensitivity assays have been used to evaluate the function of the variants of uncertain significance (VUS) of the BRCA genes. ...more

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Genome Editing Genetic Engineering

Broader concepts 5

Genome Editing Genetic Engineering

CRISPR 6

- CRISPR-Cas9 Genome Editing
- CRISPRi
- CRISPR screening
- CRISPRa
- CRISPR-droplet Sequencing
- Perturb-seq
- Easi-CRISPR
- Cas9-Assisted Targeting Of Chromosome Segments (CATCH)
- ECCITE-seq
- CRISPR-X

More Molecular techniques 7

- Sucrose Density Gradient Centrifugation
- ChIP-seq
- Recombinant Protein Expression
- TRAP Assay
- High-Throughput Sequencing
- Single-molecule Assay
- Western Blot
- In Situ Hybridization
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探索使用特定技术的不同方法，并为您的实验选择最佳选项。
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探索研究技术之间的关系，找出哪些技术在实验室中被一起使用。
- 5 更广泛的概念
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- 6 技术分层体系
展示所有相关的子技术，允许用户探索技术间的关联并根据需要优化搜索。
- 7 同一主题下的更多技术

执行搜索

搜索涵盖所有施普林格·自然与实验方案和方法相关的内容，并为此专门进行了优化，以识别常见的科学同义词和缩写词。我们的语义搜索可在搜索查询中识别研究技术、模式生物和细胞系，且能精准给出使用它们的实验方案和方法。



Western Blot

7,456 results for "Western Blot"

Concepts identified: Technique: Western Blot

Publication Year: 1986 to 2023

Technique: Search for technique

- PCR: 1788
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- Gel Electrophoresis: 1614

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Springer Protocols (2015) Protocol

Series: Methods In Molecular Biology > Book: Western Blotting

Two-Dimensional Gel-Based Protein Standardization Verified by Western Blot Analysis

Hisao Hanlu, Daisuke Watanabe, Yusuke Kawashima, Hiroyuki Matsumoto

In data presentation of biochemical investigation the amount of a target protein is shown in the y-axis against the x-axis representing time, concentrations of various agents, or other parameters. Western blot is a versatile and convenient tool ...more

Antibodies: Anti-mouse, Anti-goat

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Springer Protocols (2015) Protocol

Series: Methods In Molecular Biology > Book: Western Blotting

Native Electrophoresis and Western Blot Analysis (NEWeB): Methods and Applications

Ioannis N. Manoussopoulos, Mina Tsagris

Native Electrophoresis and Western Blot Analysis (NEWeB) has been developed for the study of plant virus characteristics, among others, virus particle-protein interactions, electrophoretotype formation, and strain separation. The method is based on t...more

Techniques: Immunoassay, Electrophoresis, Western Blot, Titration, Homogenization

Models: Plum pox virus, Potyvirus

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Springer Protocols (2015) Protocol

Series: Methods In Molecular Biology > Book: Western Blotting

Western Blot Analysis of Adhesive Interactions Under Fluid Shear Conditions: The Blot Rolling Assay

Robert Sackstein, Robert Fuhlbrigge

Western blotting has proven to be an important technique in the analysis of receptor-ligand interactions (i.e., by ligand blotting) and for identifying molecules mediating cell attachment (i.e., by cell blotting). Conventional ligand blotting a...more

Techniques: Western Blot, Gel Electrophoresis, Mass Spectrometry, Immunostaining, Light Microscopy... 3 more

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Two-Dimensional Gel-Based Protein Standardization Verified by Western Blot Analysis 3

Hisao Haniu, Daisuke Watanabe, Yusuke Kawashima, Hiroyuki Matsumoto

In data presentation of biochemical investigation the amount of a target protein is shown in the y-axis against the x-axis representing time, concentrations of various agents, or other parameters. Western blot is a versatile and convenient tool ...more

Techniques: Western Blot, 2D Electrophoresis, 2D PAGE, SDS-PAGE, Protein Assay, Recombinant Protein Expression, Electrophoretic blotting, Infrared Imaging less 4

Models: Mus musculus

Antibodies: Anti-mouse, Anti-goat 5

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Nature Methods (2014) 1 nature methods

A sentinel protein assay for simultaneously quantifying cellular processes 2

Authors: Martin Soste¹, Rita Hrabakova^{1,4}, Stefanie Wanka², Andre Melnik¹ ... Paola Picotti¹

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Abstract 3

We describe a proteomic screening approach based on the concept of sentinel proteins, biological markers whose change in abundance characterizes the activation state of a given cellular process. Our sentinel assay simultaneously probed 188 biological ...more

Experimental Specifications 5

Techniques Reagents Other Keywords

Mass Spectrometry

Proteomics

Protein Assay

SRM

BCA assay

STRING

Liquid Chromatography-tandem Mass Spectrometry

Liquid Chromatography (LC)

Statistical Calculation

Figures (4) & Videos (0) 4

Figure 1: Concept of sentinel proteins and the development of a sentinel fingerprint assay.

Related articles 6

Based on techniques

Quantitative Determination of Cytochrome P450 Using LC-MS/MS

Ryan H. Takahashi et al., 2021, Springer Protocols

LC-SRM-Based Targeted Quantification of Urinary Protein Biomarkers

Yuqian Gao et al., 2018, Springer Protocols

Supplementary information 7

Supplementary Text and Figures

Protein-based sentinels

Phosphorylation-based sentinels

Complete set of SRM assays used in the sentinel fingerprint assay

Sentinel protein quantification data across eight perturbation experiments

Citations (52) 8

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