**PROTEINS**
Over 3500 biologically active recombinant and natural proteins spanning 35 species.

- **Quality**
  - Stringent quality control specifications for activity, purity, and endotoxin.
  - More stations than any other protein manufacturer.
  - Lot-to-lot consistency.
  - Unmatched customer support.

- **Selection**
  - Cytoplasmic, receptors, proteases, and enzymes for metabolism and glycolobiology research.
  - Tags to meet needs: His, Fc, Biotin, Avi, and more.
  - More than 10,000 non-catalog proteins available.

- **ProDots**
  - Tags to meet needs: His, Fc, Biotin, Avi, and more.
  - Cytokines, receptors, proteases, and enzymes for metabolism and glycolobiology research.

**SMALL MOLECULES**
Over 4,000 high quality chemical tool compounds.

- **GPCR Ligands, Enzyme Inhibitors, Ion Channel Modulators, Fluorescent Probes & Dyes, Compound Libraries**
  - Over 4,000 high quality chemical tool compounds.

**CELL CULTURE ESSENTIALS**
Grow healthy and robust cells with our full cell culture workflow portfolio.

- **Culture with Confidence**
  - From cell culture substrates and media supplements to differentiation and cell behavior kits, our tools for cell culture are designed to ensure that in vitro and ex vivo experiments will perform optimally.

- **Cell Culture Basics by the Best**
  - Grow healthy and robust cells with our full cell culture workflow portfolio.

**CUSTOM PRODUCTS & CONTRACT SERVICES**
Expedite your research.
Partnering with our industry-renowned product development and biomarker testing scientists to deliver unique reagents and reliable data.

- **Custom Protein & Antibody Generation**
  - Our recombinant technologies provide gram quantities of consistent proteins and antibodies required for diagnostic and therapeutic reagent development.

- **Assay Development**
  - R&D Systems has over 20 years of experience developing, optimizing, and validating immunoassay kits and Luminex® assays to ensure the highest level of performance in analytic quantification.

**STEM CELL AND 3-D CULTURE MODELS**
Experts in developing tools for advancing stem cell and 3-D cell culture.

- **We Have You Covered**
  - Through isolation, differentiation, verification, and investigation, we have tools to make your stem cell, organoid, and 3-D cell culture more efficient and reliable.

- **Evolve Your 3-D Models**
  - Stay at the forefront of 3-D cell culture by using our organoid reagent guide or trying MimEX™ Tissue Model Systems, an innovative technology for generating accessible 3-D epithelial tissue in vitro.

**ANTIBODIES**
Over 155,000 antibodies.

- **Confidence in Your Purchase.**
  - Our antibodies are 100% guaranteed to work in the application and species listed.

- **Unique Clones and Exclusive Antibodies.**
  - Many of our unique clones have been used by HLDA to establish CD nomenclature and we offer over 15,000 antibodies that are available exclusively from us.

- **Wide Selection of Conjugated Antibodies.**
  - We offer over 50,000 antibodies conjugated to at least 14 complimentary colors.

- **Monoclonal Antibody Panels**
  - Thousands of non-catalog monoclonal antibodies available now. Test these panels in your application to find the clone that produces optimal results.

**Learn more | rndsystems.com/proteins**

**Learn more | rndsystems.com/antibodies novusbio.com**

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**Learn more | rndsystems.com/stemcells**

**Learn more | rndsystems.com/cellculture**

**STM CELL AND 3-D CULTURE MODELS**
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ELISAs

**Limitless Analytes Spanning 12 Species.**
- **User-Friendly Design.**
- **Uniquely Flexible Assay Options.**
- **High Performance.** Choose from Standard or High Performance.
- **Economical Alternatives.**
- **Confidence with Controls.**
- **Legendary Performance.**

**700 analytes spanning 12 species.**

**INSTRUMENTATION**

**Luminex**
- **MAGPIX® System**
  - Simple, compact, affordable, and able to multiplex up to 50 analytes using magnetic beads with a read time of just 60 minutes for a 96-well plate.
- **Luminex® 200**
  - Multiplex up to 100 analytes using polystyrene beads or 80 analytes using magnetic beads with a read time of only 45 minutes for a 96-well plate.
- **FLEXMAP 3D®**
  - The most advanced and versatile multiplexing platform. Compatible with 96- and 384-well plates, it reads up to 500 bead regions in both the polystyrene and magnetic formats and is compatible with front-end automation systems making this the ideal platform for high-throughput applications.

**ProteinSimple®**
- **Elisa runs Simple Plex™ assays.**
  - Run up to 4 immunoassays from 25 μL of sample, with no cross-reactivity.
  - Set up samples in 10 minutes, get data in 1 hour.
  - Get highly sensitive results at <50% CV.
  - Choose from up to 150 validated targets, from cytokines to PD-L1.
- **Wes®, Peggy Sue™ and Sally Sue™ run Simple Western™ assays.**
  - Separation by capillary electrophoresis and immunodetection of proteins from 2–440 kDa or by charge (IEF).
  - No gel, blots and minimal hands-on are required.
  - Sample to result in as little as 3 hours with Wes.
  - Quantifiable and reproducible data.
- **Milo™**
  - Milo does Single-Cell Westerns to measure protein expression in ~1,000 single cells in a single run.
  - Multiplex to measure ~4 proteins in each single-cell.
  - Use off-the-shelf, Western-validated antibodies to measure intracellular proteins or targets that don’t have good flow antibodies.
  - Identify cell subtypes that aren’t visible in traditional Westerns or get direct protein validation of your single-cell RNA results.

**ANTIBODY ARRAYS**

**Choose from Standard or High Performance**
- **High Performance.**
  - Luminex High Performance Assays are the most accurate and precise bead-based multiplex assays for simultaneously measuring up to 45 analytes from customizable panels in qualified complex matrices. You choose if you prefer us to mix the beads or if you want to do it yourself.
- **Uniquely Flexible Assay Options.**
  - Our Standard Luminex Assays are the only assays on the market in a premixed format where you choose from a large selection of analytes to create your own unique panel of 50 analytes which are then fully quality controlled for compatibility before shipment.
- **Results You Can Trust.**
  - We are the only company that provides recombinant protein positive controls.
- **Complete Your Panel of Analytes.**
  - Take advantage of our massive in-house collection of antibodies and proteins. Complete your panel with a custom development order.

**Cast a wide net and stretch your dollar.**
- **Can You Run a Western Blot?**
  - If the answer is yes, then you have all the equipment you need to use our antibody arrays.
- **User-Friendly Design.**
  - Each array is stamped with an identification number for easy record keeping and contains reference spots in three corners for orientation purposes.
- **Cost-Effective Screening.**
  - Each array offers a quick and inexpensive analysis of many analytes simultaneously, in less time than it takes to perform a Western blot.

**LUMINEX® ASSAYS**

**ELISPOT**
- **We outperform the competition.**
  - Be Confident in the Data:
    - Small, crisp spots all for easier more accurate quantitation and the largest dynamic range (number of detectable spots/well) on the market.
  - **Detect Low Frequency Responses.**
    - Our kits can measure responses with frequencies well below 1 in 100,000 cells – up to 20% more sensitive than our competition.
  - **Be Assured the Kit Worked.**
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**R&D Systems** develops and manufactures high-quality proteins and serves as a world leader in immunoassays. R&D Systems also produces quality antibodies, antibody arrays, stem cell and cell culture products, and cell selection and detection products, serving the life science and diagnostics industry.

[mdsystems.com](http://mdsystems.com)

**Novus Biologicals** licenses, manufactures, and markets antibodies to over 20,000 unique targets to support a wide array of research areas. Novus is built on honesty, collaboration and strong relationships and continues to provide quality tools that accelerate research. Every product is backed by our 100% guarantee.

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**Tocris Bioscience** is a leading supplier of innovative high performance life science research reagents. The Tocris range of small molecules and peptides represents a unique collection of novel and exclusive research tools, including GPCR ligands, ion channel modulators, enzyme inhibitors, caged compounds, fluorescent probes, and screening libraries.

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**ProteinSimple** At ProteinSimple we’re changing the way researchers 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.

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**Advanced Cell Diagnostics (ACD)** enables single day manual and automated gene expression analysis by providing optimized single and multiplex chromogenic and fluorescence assay kits, >15,000 off-the-shelf target probes and pharma assay services based on RNAscope® technology, the most advanced RNA in situ hybridization (ISH) assay which allows researchers to visualize genes expressed at a single molecule RNA sensitivity, localize where they are expressed, and quantify the level of expression. Enabling academic research, drug development, diagnostic and CDx assays. ACD’s core applications include cancer, immune-oncology, neuroscience, Infectious disease, stem cell research and gene therapy. RNAscope has reached 1000 peer reviewed publications in less than 6 years.

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