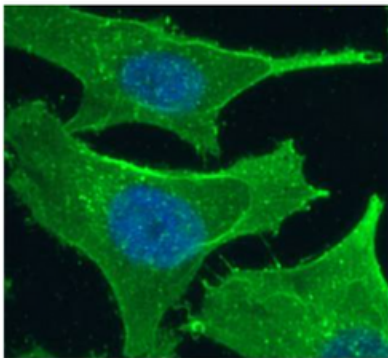
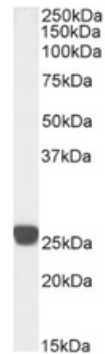


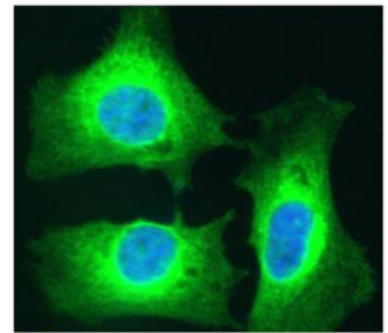
# THE RISE OF RECOMBINANT ANTIBODIES



Notch 2 Recombinant Antibody [B6]  
(OAAV00640)



Cardiac Troponin I Recombinant Antibody [scFc 180]  
(OAAV00763)



NFKB2 Recombinant Antibody [SAIC-26C-15]  
(OAAV00728)

Recent analyses indicate as much as 50% of commercial antibody products do not work as intended. To address the outsized effect of poor antibodies on the reproducibility crisis, researchers are pushing for a transition to recombinant antibody production systems. Though Aviva Systems Biology has long provided polyclonal antibody products, we have launched a recombinant antibody discovery and development platform to support this effort and improve antibody reliability.

Table: Recombinant antibodies outperform poly- and monoclonal antibodies.  
Percent of evaluated commercial antibodies that correctly bind intended target.

Assay Format	Western Blot (WB)	Immunoprecipitation (IP)	Cellular Immunofluorescence (IF)
Recombinant	67%	54%	48%
Polyclonal	27%	39%	22%
Monoclonal	41%	32%	31%

# Harnessing the Advantages of Recombinant Antibody Technology

Recombinant antibodies offer several advantages over other types of antibodies. Here are some key advantages:

- **High specificity:**

Through the use of recombinant DNA technology, specific antibody sequences can be identified, cloned, and expressed, ensuring precise targeting of the desired epitope. This specificity reduces the chances of cross-reactivity, leading to more accurate and reliable results.

- **Reduced batch variability and improved reproducibility:**

With recombinant antibodies, each production batch can be carefully controlled and characterized, ensuring consistent batch-to-batch performance. This reproducibility is crucial for experimental consistency.

- **Availability for difficult targets:**

Recombinant antibody technology is particularly useful when studying highly conserved or difficult-to-obtain antigens, since recombinant antibody methods allow researchers to access antibodies that specifically recognize such challenging antigens.

- **Scalability and renewable supply:**

Recombinant antibodies can be produced in large quantities with greater ease compared to traditional antibody production methods. This innovative platform allows for the sustainable and continuous production of the same antibodies, every time.

**Distributed by:**

**CliniSciences Group**

# CliniSciences Group

## Austria



Company: CliniSciences GmbH  
Address: Sternwartestrasse 76, A-1180  
Wien - Austria  
Telephone: +43 720 115 580  
Fax: +43 720 115 577  
Email: [oesterreich@clinisciences.com](mailto:oesterreich@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Belgium



Company: CliniSciences S.R.L  
Address: Avenue Stalingrad 52, 1000  
Brussels - Belgium  
Telephone: +32 2 31 50 800  
Fax: +32 2 31 50 801  
Email: [belgium@clinisciences.com](mailto:belgium@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Denmark



Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [danmark@clinisciences.com](mailto:danmark@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Finland



Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [suomi@clinisciences.com](mailto:suomi@clinisciences.com)  
Web: <https://www.clinisciences.com>

## France



Company: CliniSciences S.A.S  
Address: 74 Rue des Suisses, 92000  
Nanterre- France  
Telephone: +33 9 77 40 09 09  
Fax: +33 9 77 40 10 11  
Email: [info@clinisciences.com](mailto:info@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Germany



Company: Biotrend Chemikalien GmbH  
Address: Wilhelm-Mauser-Str. 41-43,  
50827 Köln - Germany  
Telephone: +49 221 9498 320  
Fax: +49 221 9498 325  
Email: [info@biotrend.com](mailto:info@biotrend.com)  
Web: <https://www.biotrend.com>

## Iceland



Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [island@clinisciences.com](mailto:island@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Ireland



Company: CliniSciences Limited  
Address: Ground Floor, 71 lower Baggot street  
Dublin D02 P593 - Ireland  
Telephone: +353 1 6971 146  
Fax: +353 1 6971 147  
Email: [ireland@clinisciences.com](mailto:ireland@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Italy



Company: CliniSciences S.r.l  
Address: Via Maremmana inferiore 378  
Roma 00012 Guidonia Montecelio - Italy  
Telephone: +39 06 94 80 56 71  
Fax: +39 06 94 80 00 21  
Email: [italia@clinisciences.com](mailto:italia@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Netherlands



Company: CliniSciences B.V.  
Address: Kraaijenhoffstraat 137A,  
1018RG Amsterdam, - Netherlands  
Telephone: +31 85 2082 351  
Fax: +31 85 2082 353  
Email: [nederland@clinisciences.com](mailto:nederland@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Norway



Company: CliniSciences AS  
Address: c/o MerVerdi Munkerudtunet 10  
1164 Oslo - Norway  
Telephone: +47 21 988 882  
Email: [norge@clinisciences.com](mailto:norge@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Poland



Company: CliniSciences sp.Z.o.o.  
Address: ul. Rotmistrza Witolda Pileckiego 67  
lok. 200 - 02-781 Warszawa -Poland  
Telephone: +48 22 307 0535  
Fax: +48 22 307 0532  
Email: [polska@clinisciences.com](mailto:polska@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Portugal



Company: Quimigen Unipessoal LDA  
Address: Rua Almada Negreiros, Lote 5, Loja 14,  
2615-275 Alverca Do Ribatejo - Portugal  
Telephone: +351 30 8808 050  
Fax: +351 30 8808 052  
Email: [info@quimigen.com](mailto:info@quimigen.com)  
Web: <https://www.quimigen.pt>

## Spain



Company: CliniSciences Lab Solutions  
Address: C/ Hermanos del Moral 13  
(Bajo E), 28019, Madrid - Spain  
Telephone: +34 916 750 700  
Fax: +34 91 269 40 74  
Email: [espana@clinisciences.com](mailto:espana@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Sweden



Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [sverige@clinisciences.com](mailto:sverige@clinisciences.com)  
Web: <https://www.clinisciences.com>

## Switzerland



Company: CliniSciences AG  
Address: Fracht Ost Flughafen Kloten  
CH-8058 Zürich - Switzerland  
Telephone: +41 (044) 805 76 81  
Fax: +41 (044) 805 76 75  
Email: [switzerland@clinisciences.com](mailto:switzerland@clinisciences.com)  
Web: <https://www.clinisciences.com>

## UK



Company: CliniSciences Limited  
Address: 11 Progress Business center, Whittle  
Parkway, SL1 6DQ Slough- United Kingdom  
Telephone: +44 (0)1753 866 511  
or +44 (0) 330 684 0982  
Fax: +44 (0)1753 208 899  
Email: [uk@clinisciences.com](mailto:uk@clinisciences.com)  
Web: <https://www.clinisciences.com>

## USA



Company: Biotrend Chemicals LLC  
Address: c/o Carr Riggs Ingram,  
500 Grand Boulevard, Suite 210 Miramar  
Beach, FL 32550- USA  
Telephone: +1 850 650 7790  
Fax: +1 850 650 4383  
Email: [info@biotrend-usa.com](mailto:info@biotrend-usa.com)  
Web: <https://www.biotrend-usa.com>