



Vivapure Protein A Mini spin columns  
for antibody purification

---

## Effective antibody purification using Protein A

**Vivapure® Protein A Mini spin columns offer a rapid and convenient way to purify antibodies in only a few centrifugal steps.**

They are based on an innovative and powerful membrane technology: Protein A coupled to a proprietary membrane.

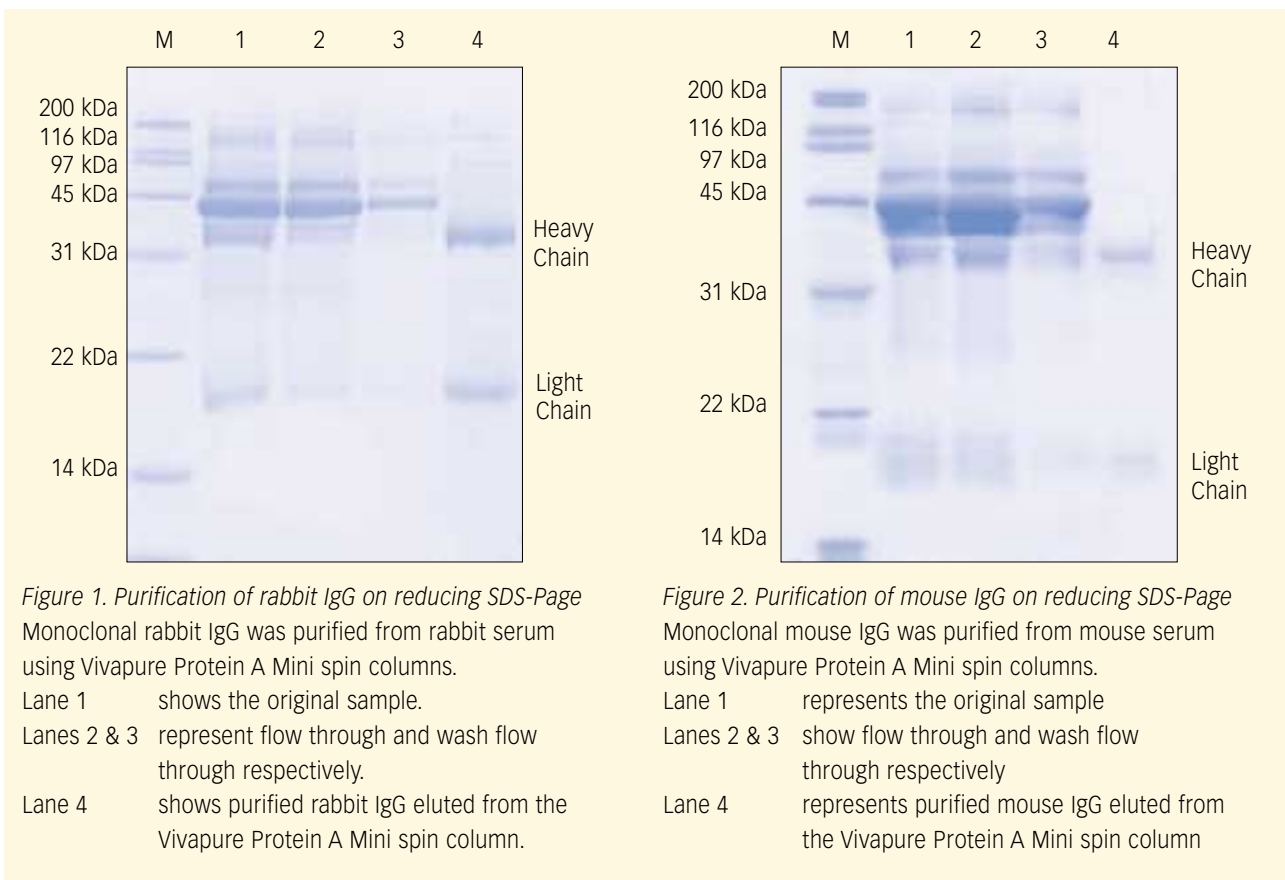
Protein A is a component of the cell wall of the bacterium *Staphylococcus aureus* and specifically binds to the Fc-region of various immunoglobulins (Ig).

### Protein A affinity to different IgGs

Species	Protein A affinity	Species/Isotype	Protein A affinity
Human	++++	Human IgG1	++++
Mouse	++	Human IgG2	++++
Rat	+/-	Human IgG3	-
Hamster	+	Human IgG4	++++
Guinea Pig	++++	Mouse IgG1	+
Rabbit	++++	Mouse IgG2a	++
Horse	++	Mouse IgG2b	+++
Cow	++	Mouse IgG3	++
Pig	+++	Rat IgG1	-
Sheep	+/-	Rat IgG2a	-
Goat	-	Rat IgG2b	-
Chicken	-	Rat IgG2c	+

++++ = Strong affinity      + = Slight affinity  
 +++ = Moderate affinity    +/- = Some serum IgGs bind weakly, some not at all  
 ++ = Weak affinity        - = No affinity

## Antibody purification with Vivapure Protein A Mini spin columns



## Antibody purification made simple

### Rapid

The antibodies to be bound are loaded onto the membrane at neutral to high pH and eluted upon a shift to low pH. This is done very rapidly in subsequent centrifugation steps within less than 30 minutes.

### User friendly

The Vivasure Protein A Mini spin devices are supplied with an easy 1-2-3 protocol and detailed instructions including optimized buffer recommendations. The Vivasure spin devices lend themselves to working with multiple samples and parallel processing.

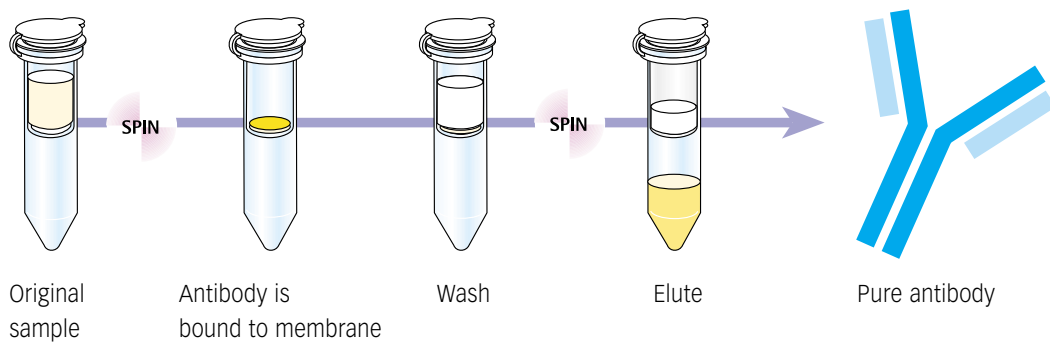


### High purity

Protein A is inherently known to purify antibodies from complex samples

#### Vivasure Protein A Mini Spin Columns

Cat. No.	VS-PA01PA24
Vivasure Protein A Mini spin columns	24
Collection tubes	72
Instruction manual	1



## Related Products

### Vivasure family:

- Ion Exchange spin columns
- Acidic Protein Purification Kit
- Basic Protein Purification Kit
- DNA Removal Kit
- Albumin Removal Kit

### Production of monoclonal antibodies:

- miniPERM bioreactor



### Ultrafiltration of antibody solutions:

- Vivaspin 15R & Vivaspin 2 with Hydrosart® membrane



(See ordering information on the back and at [www.vivascience.com](http://www.vivascience.com))

## Ordering Information

Cat Number	Vivapure Kits	Spin Columns		Cat Number	Vivapure Ion Exchange Maxi Spin Columns	Spin Columns	Centrifuge Tubes
VS-IX01QHGP	Acidic Protein Purification Kit Q Mini H	8		VS-IX20CM08	Vivapure C Maxi M	8	16
VS-IX20QHGP	Acidic Protein Purification Kit Q Maxi H	4		VS-IX20CH08	Vivapure C Maxi H	8	16
VS-IX01SHGP	Basic Protein Purification Kit S Mini H	8		VS-IX20DM08	Vivapure D Maxi M	8	16
VS-IX20SHGP	Basic Protein Purification Kit S Maxi H	4		VS-IX20DH08	Vivapure D Maxi H	8	16
VS-IX01QHAR	Albumin Removal Kit Q Mini H	12		VS-IX20QM08	Vivapure Q Maxi M	8	16
VS-IX20QHAR	Albumin Removal Kit Q Maxi H	4		VS-IX20QH08	Vivapure Q Maxi H	8	16
VS-IX01DMDR	DNA Removal Kit D Mini M	12		VS-IX20SM08	Vivapure S Maxi M	8	16
VS-IX20DMDR	DNA Removal Kit D Maxi M	6		VS-IX20SH08	Vivapure S Maxi H	8	16
Cat Number	Vivapure Ion Exchange Mini Spin Columns	Spin Columns	Centrifuge Tubes	Cat Number	Vivapure Ion Exchange Mega Spin Columns	Spin Columns	Centrifuge Tubes
VS-IX01ST16	Vivapure Mini H Starter Kit (4 of each ion exchange class)	16	32	VS-IX75QH02	Vivapure Q Mega H	2	2
VS-IX01CL24	Vivapure C Mini L	24	48	VS-IX75DH02	Vivapure D Mega H	2	2
VS-IX01CM24	Vivapure C Mini M	24	48	VS-IX75SH02	Vivapure S Mega H	2	2
VS-IX01CH24	Vivapure C Mini H	24	48	VS-IX75CH02	Vivapure C Mega H	2	2
VS-IX01DL24	Vivapure D Mini L	24	48				
VS-IX01DM24	Vivapure D Mini M	24	48				
VS-IX01DH24	Vivapure D Mini H	24	48				
VS-IX01QL24	Vivapure Q Mini L	24	48				
VS-IX01QM24	Vivapure Q Mini M	24	48				
VS-IX01QH24	Vivapure Q Mini H	24	48				
VS-IX01SL24	Vivapure S Mini L	24	48				
VS-IX01SM24	Vivapure S Mini M	24	48				
VS-IX01SH24	Vivapure S Mini H	24	48				



### For more information on related products, please refer to the:

- Vivascience Ultrafiltration Catalog - Vivaspin 2, Vivaspin 15R
- Vivascience Cell Culture Catalog - miniPERM bioreactor, quadriPERM (see front cover)
- Vivapure® Catalog for kits and devices for protein purification

For current information and application notes, please visit us at [www.vivascience.com](http://www.vivascience.com)

Vivascience Technical Support		Phone	Fax	E-mail
USA	Vivascience Service & Technical Support	+1 877 452 2345 (toll free)	+1 760 918 8281	info.usa@vivascience.com
Europe	Vivascience Support Center	+49 1 802 000 581 (toll free)	+49 1 802 000 583	info@sc.vivascience.de
International	Vivascience Support Center	+49 551 38906 0	+49 551 38906 11	info@sc.vivascience.de
Vivascience Customer Sales				
France	Vivascience S.A.R.L.	+33 169 19 93 23	+33 160 13 95 05	info.france@vivascience.com
Germany	Vivascience AG	+49 551 308 4023	+49 551 308 3289	info.germany@vivascience.com
UK	Vivascience Ltd.	+44 1372 737 159	+44 1372 726 171	info.uk@vivascience.com
USA	Vivascience Inc.	+1 877 452 2345	+1 760 918 8281	info.usa@vivascience.com

### Vivascience AG

Feodor-Lynen-Strasse 21 Phone: +49 511 524875-0 E-mail: [info@vivascience.com](mailto:info@vivascience.com)  
 30625 Hannover, Germany Fax: +49 511 524875-19 Web: [www.vivascience.com](http://www.vivascience.com)