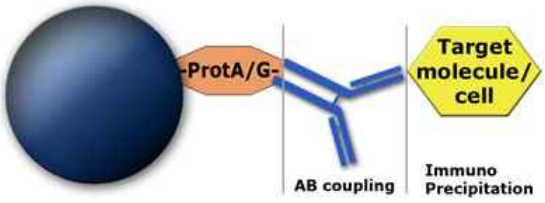
MagSi-protein A & MagSi-protein G

Scientists can use Protein A or Protein G coated MagSi silica beads as an isolation tool for applications like total IgG purification, Immunoprecipitation (IP), chromatin immunoprecipitation (ChIP), protein isolation etc. Direct cross-linking after binding of IgG molecules saves the user time and money.



MagnaMedics Diagnostics BV designs its MagSi-protein A or G products on the MagSi-S platform.

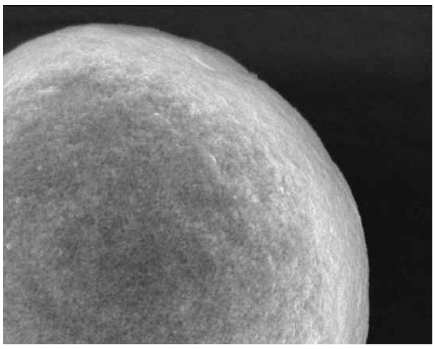


Figure 1: SEM picture of MagSi-S bead with its nano-porous surface

- **All MagSi products are easy to use**
- **Fast and flexible implementation towards your needs**
- **Products for manual and automated processes**
- **All products suit multiple lab routines**
- **Superior binding kinetics**
- **Parallel processing increases throughput/capacity**
- **Guaranteed product shelf life of 1 year**

Key applications for MagSi-protein A or MagSi-protein G:

Small scale isolation/purification of IgG, IP, ChIP, MeDIP, protein-protein interaction (coIP), protein -isolation, -concentration and -purification.

Suitable samples when using MagSi-protein A or MagSi-protein G:

Body fluids (e.g. serum, saliva, plasma), cell culture etc., to isolate antibodies, or in secondary step other proteins captured with the bound and cross-linked IgG's.

Advantages of MagSi-protein A and MagSi-protein G
• No columns, centrifugation, or time-consuming pre-treatment of sample and matrix material
• Easy handling and simple, short protocol (process time reduction > 50%)
• Concentration and purification of isolated material done in a single step
• Gentle procedure, minimal physical stress on precious proteins and protein complexes
• Significant reduced background caused by non-specific binding (as with other techniques)
• Protocol adjustable to sample volume and throughput without limitation. Easily automated.

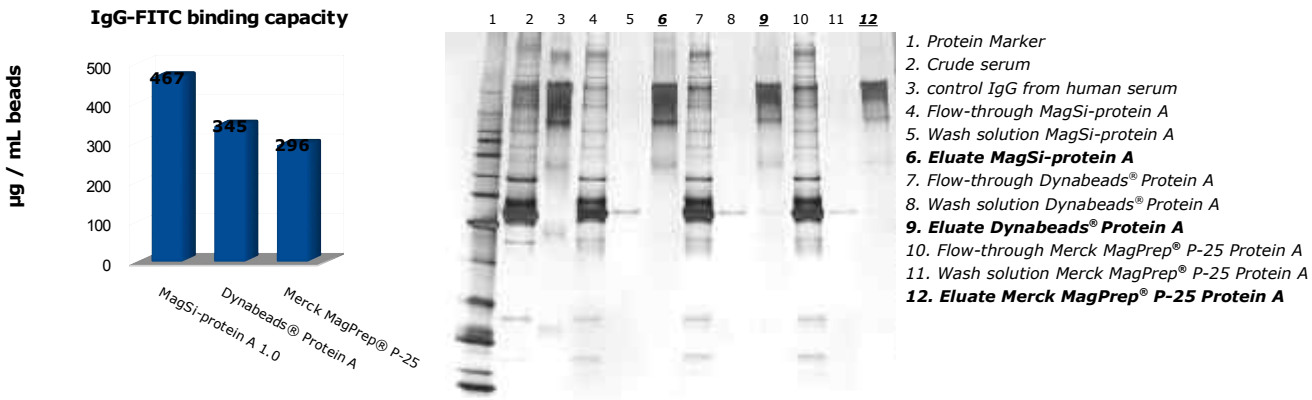


Figure 2: (Left) IgG-FITC binding capacity of MagSi-protein A 1.0 compared to Dynabeads® Protein A and Merck MagPrep® P-25 Protein A, shows improvements (+35% and +58% respectively). (Right) SDS-PAGE image of IgG purification from human serum shows similar band patterns (lane 6 vs. 9, 12). Although Dynabeads® Protein A and Merck MagPrep® P-25 Protein A show equal specificity for IgG, the binding capacity is lower as well. Analyzed MagSi product flow-through samples against competition (lane 4 vs. 7 and 10) show remaining human IgG. Not all IgG was captured in lane 7 and 10, making MagSi-protein A 1.0 to be most cost-effective product for IgG binding experiments and clean-ups.

MagnaMedics Diagnostics offers more:

- Accurate support to end-users either direct or via MagnaMedics' distribution partners
- Optimization towards client specification achievable via MagCustom

Order Information

MagSi-protein A

MagSi magnetic silica particles with a mono-layer of high quality Protein A covalently attached to the bead surface.

Cat.#	Product	Conc.	Size	Volume
MD10011	MagSi-protein A 600	10mg/ml	600nm	1ml
MD11011	MagSi-protein A 600	10mg/ml	600nm	5ml
MD01011	MagSi-protein A 1.0	10mg/ml	1µm	1ml
MD02011	MagSi-protein A 1.0	10mg/ml	1µm	5ml

MagSi-protein G

MagSi magnetic silica particles with a mono-layer of high quality Protein G covalently attached to the bead surface.

Cat.#	Product	Conc.	Size	Volume
MD10012	MagSi-protein G 600	10mg/ml	600nm	1ml
MD11012	MagSi-protein G 600	10mg/ml	600nm	5ml
MD01012	MagSi-protein G 1.0	10mg/ml	1µm	1ml
MD02012	MagSi-protein G 1.0	10mg/ml	1µm	5ml

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