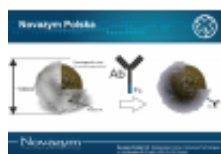


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Link do produktu: <http://www.novazym.sklep.pl/magnova-protein-a-magnetic-nano-particles-1-ml-100mg-p-229.html>



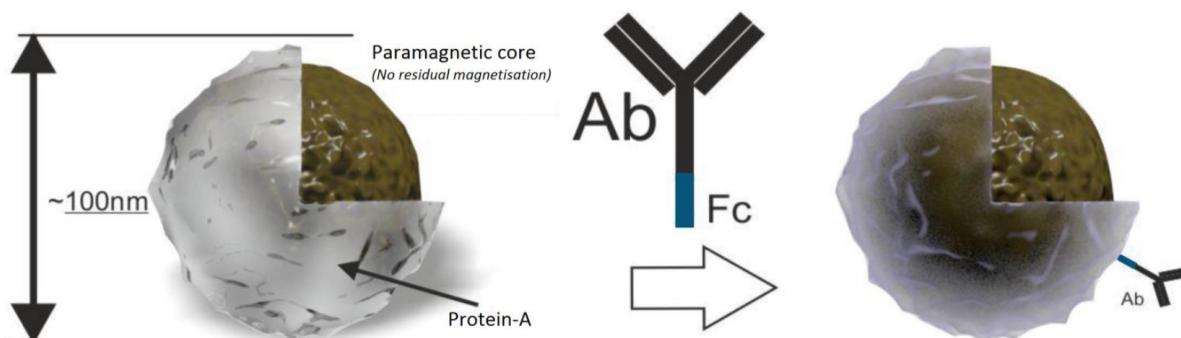
## MAGnova Protein-A magnetic nano-particles, 1 mL, 100mg

|                  |                           |
|------------------|---------------------------|
| Dostępność       | <b>Dostępność - 3 dni</b> |
| Czas wysyłki     | <b>5 dni</b>              |
| Numer katalogowy | <b>PA1000-30</b>          |

### Opis produktu

# Magnetic Nano-Particles

## MAGnova Protein-A



### Description:

- ❖ Protein-A magnetic particles are an affinity matrix for the small-scale isolation and purification of immunoglobulins. A truncated form of recombinant Protein A is covalently coupled to a paramagnetic particle. Protein A exhibits high affinity for subclasses of IgG from many species including human, rabbit and mouse (1). The protein is coupled through a linkage that is stable and leak resistant over a wide pH range. This permits the immunomagnetic purification of IgGs from ascites, serum or cell culture supernatants; the matrix can be regenerated without loss of binding capacity. Protein A magnetic particles can be used to immunoprecipitate target proteins from crude cell lysates using selected primary antibody. In addition, specific antibodies can be chemically cross-linked to the Protein A coated surface to create a reusable immunoprecipitation bead, avoiding the co-elution of antibody with target antigen (2,3).

### Features:

- ❖ Robust manual and automated magnetic isolation of IgG.
- ❖ Low non-specific binding for fast and clean purification.
- ❖ Fast reaction kinetics increases throughput and precision, and also enables faster movement particles through viscous solutions.
- ❖ Unique surface provides increased area for binding reactions compared to smooth surface particles
- ❖ Uniform size provides excellent lot-to-lot reproducibility.

### Parameters:

| Project:               | Parameters:                    | Project:                  | Parameters:                    |
|------------------------|--------------------------------|---------------------------|--------------------------------|
| Volume:                | 1 mL                           | Binding Capacity:         | 6 - 7,5 mg rabbit's IgG / mL   |
| Core:                  | Magnetite                      | Storage Buffer:           | PBS, 0,05% sodium azide        |
| Matrix:                | Covalently bound rec protein A | Regeneration Possibility: | Yes                            |
| Size approx.:          | ~ 80-100 nm                    | Autoclaved:               | No                             |
| Type of Magnetization: | Paramagnetic                   | Storage:                  | +4 - 8 °C (do not freeze!)     |
| Functional Group:      | Protein A                      | Expiry Date:              | 6 months after production date |

### The strength of the immunoglobulin interaction with G and P protein:

| Specie:               | Human        |      |      |      |      |     |     |     |
|-----------------------|--------------|------|------|------|------|-----|-----|-----|
| Immunoglobulin:       | IgG (normal) | IgG1 | IgG2 | IgG3 | IgG4 | IgM | IgA | IgE |
| Binding to Protein A: | ++++         | ++++ | ++++ | -    | ++++ | -   | -   | -   |
| Binding to Protein G: | ++++         | ++++ | ++++ | ++++ | ++++ | -   | -   | -   |

ref (1)

| Species       | Immunoglobulin | Binding to Protein A | Binding to Protein G |
|---------------|----------------|----------------------|----------------------|
| <b>Human</b>  | IgG (normal)   | ++++                 | ++++                 |
|               | IgG1           | ++++                 | ++++                 |
|               | IgG2           | ++++                 | ++++                 |
|               | IgG3           | -                    | ++++                 |
|               | IgG4           | ++++                 | ++++                 |
|               | IgM            | -                    | -                    |
|               | IgA            | -                    | -                    |
|               | IgE            | -                    | -                    |
| <b>Mouse</b>  | IgG1           | +                    | ++++                 |
|               | IgG2a          | ++++                 | ++++                 |
|               | IgG2b          | +++                  | +++                  |
|               | IgG3           | ++                   | +++                  |
| <b>Rat</b>    | IgG1           | -                    | +                    |
|               | IgG2a          | -                    | ++++                 |
|               | IgG2b          | -                    | ++                   |
|               | IgG2c          | +                    | ++                   |
| <b>Goat</b>   | IgG            | +/-                  | ++                   |
| <b>Rabbit</b> | IgG            | ++++                 | +++                  |
| <b>Sheep</b>  | IgG            | +/-                  | ++                   |