Data Sheet

PureProteome™ Protein A and Protein G Magnetic Beads

Eliminate Variability. Maximize Recovery.

PureProteome Protein A and Protein G magnetic beads are a powerful system to isolate antibodies faster, easier, and with more reproducibility then ever before. PureProteome Protein A and Protein G magnetic beads purify your sample with the highest binding capacity of any magnetic beads available. You can achieve reproducible results in both immunoprecipitation and serum depletion assays.

Advantages

- High capacity: More than 6x the binding capacity of competitive magnetic beads.
  - Bind 1.5-3.5 µg of rabbit IgG per µL of suspension
- Consistent results: Total removal of buffers with no sample loss
- Fast processing time: Bead immobilization occurs in seconds
- Ideal for immunoprecipitation and serum depletion assays
- Economical: Up to half the price of competitive magnetic beads

Superior magnetic bead performance from the experts in porous media

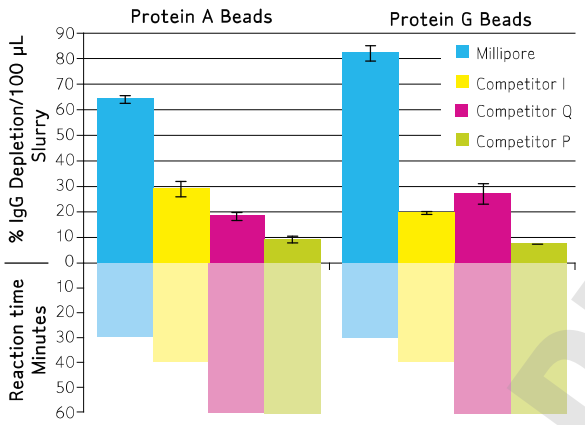
HIGH BINDING CAPACITY WITH RAPID SAMPLE PROCESSING

Trust Millipore to develop a superior magnetic bead system optimized to advance your research. Millipore's process for paramagnetizing porous silica particles enables us to provide magnetic beads with the highest binding capacity when compared to other magnetic purification systems.

With a binding capacity 6x greater then competitive beads, PureProteome Protein A and Protein G magnetic beads provide the greatest percentage of immunoglobulin (IgG) depletion from serum samples with low non-specific binding.

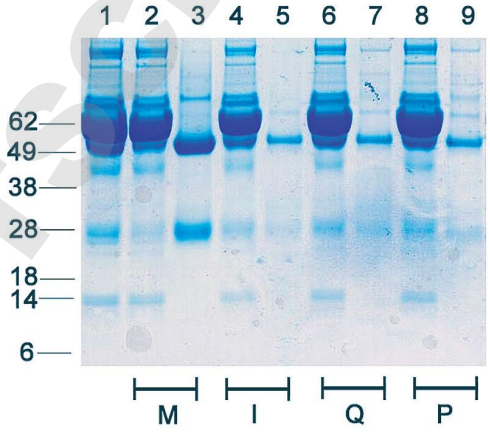
Get up to 8X greater depletion in half the time.

% IgG Depletion from 50 µL of Rabbit Serum



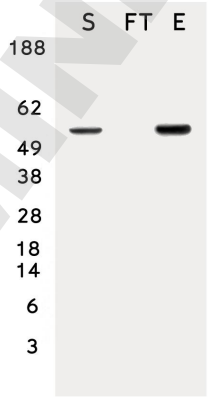
Rabbit Serum (50 µL) diluted with PBS was incubated with Protein A or Protein G magnetic beads per manufacturer's instructions. An ELISA assay was used to determine the percentage of IgG depleted and the results were normalized by the volume of suspension used per reaction.

Depletion Profile



Rabbit Serum (50 µL) diluted with PBS was incubated with Protein G magnetic beads per manufacturer's instructions. The depleted rabbit serum samples were separated by SDS-PAGE and the gel stained with Coomassie Blue using Millipore and competitor magnetic beads. Lane 1: input material, lanes 2, 4, 6, 8: depleted samples, lanes 3, 5, 7, 9: eluted samples.

Use of the Indirect Immunoprecipitation Protocol to Isolate p53 Protein from A431 Cell Lysates

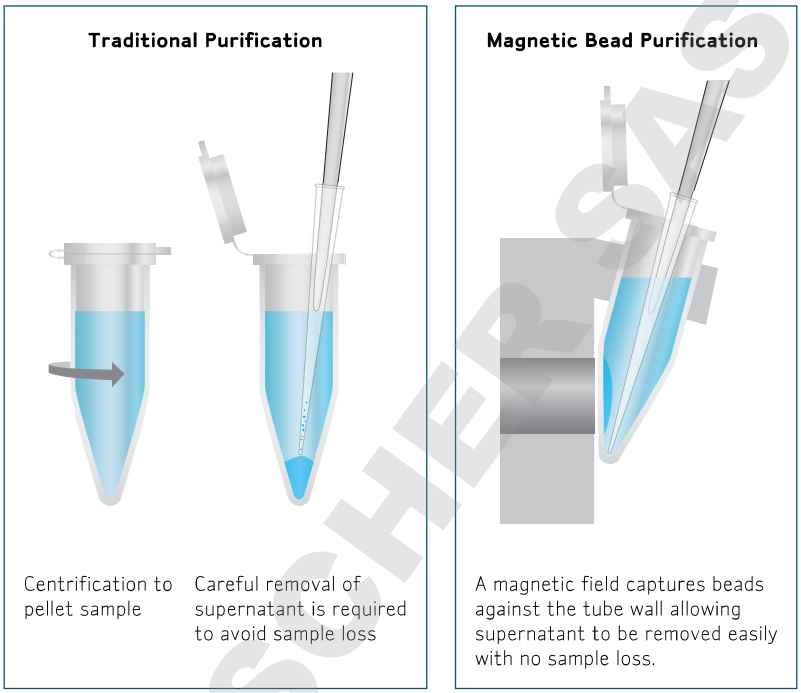


A whole-cell lysate (300 mg of protein in 500 µL) prepared from A431 cells was incubated in the presence of 5 µg of a mouse monoclonal antibody specific for the tumor suppressor protein/transcription factor p53 for 2 hours at 4 °C with gentle mixing. The antigen-antibody complexes were then incubated for 10 minutes at room temperature with 50 µL of pre-washed PureProteome Protein A magnetic beads followed by washes with PBS to remove any unbound protein. The immunoprecipitated p53 protein was eluted from the beads by incubation in the presence of gel loading buffer for 10 minutes at 70 °C. Ten microliter samples of the cell lysate starting material (S), cell lysate that had been incubated in the presence of the PureProteome magnetic beads (FT) and the p53-containing eluted fraction (E) were subjected to SDS-PAGE and western blot analysis using Immobilon-P blotting membrane. The immunoreactive p53 protein was visualized using the SNAP i.d.™ Protein Detection System (antibodies: rabbit anti-p53, HRP-conjugated goat anti-rabbit) and Immobilon HRP Western Substrate. The results shown demonstrate quantitative precipitation of the p53 protein from the samples.

COMPLETE RECOVERY WITH REPRODUCIBLE RESULTS

Millipore's new PureProteome magnetic beads ensure the rapid and reproducible isolation of proteins. Unlike conventional methods that require centrifugation to pellet followed by careful aspiration to avoid sample loss, PureProteome magnetic beads are isolated using a magnetic rack. This allows for the total removal of buffers for complete recovery of beads with no sample dilution.

Eliminate variability while maximizing recovery.



FAST AND EASY

While traditional methods require minutes of harsh centrifugation to isolate your sample, the PureProteome magnetic bead system isolates proteins in seconds using a magnetic rack right on your bench. A magnetic field gently immobilizes the highly-visible beads on the side of the tube. This allows quick and easy aspiration and eliminates the need for a centrifugation step. With the increased reaction kinetics of the Pure Proteome magnetic beads, incubations can be performed in minutes.

Immunoprecipitation reactions that may require up to 18 hours of incubation with beads using conventional methods can now be accomplished in as little as 10 minutes.

Dramatically reduce your sample preparation time with PureProteome magnetic beads.

RAPID DOWNSTREAM PROCESSING

To further speed up your immunodetection protocol, detect your immunoprecipitated proteins with the SNAP i.d. Protein Detection System. Unlike conventional western blotting, where diffusion is the primary means of reagent transport, this system applies a vacuum to actively drive reagents through the membrane.

Use PureProteome magnetic beads with the SNAP i.d. System to isolate and detect proteins in record time.

Immunoprecipitation
↓
Protein Concentration
↓
Electrophoresis
↓
Membrane Transfer
↓
Blocking
↓
Antibody Addition
↓
Detection

ORDERING INFORMATION

Description	Qty/Pk	Catalogue No.
PureProteome Magnetic Beads		
PureProteome Protein A Magnetic Beads	10 mL 2 x 1 mL	LSKMAGA10 LSKMAGA02
PureProteome Protein G Magnetic Beads	10 mL 2 x 1 mL	LSKMAGG10 LSKMAGG02
Pure Proteome Nickel Magnetic Beads	10 mL 2 x 1 mL	LSKMAGH10 LSKMAGH02
Magna GrIP™ Rack		20-400

Description	NMWL*	Qty/Pk	Catalogue no.
Protein Concentration (<4 mL samples)			
Amicon® Ultra-4 Centrifugal Filter Unit with Ultracel®-3 membrane	3	24	UFC800324
Amicon Ultra-4 Centrifugal Filter Unit with Ultracel-10 membrane	10	24	UFC801024
Amicon Ultra-4 Centrifugal Filter Unit with Ultracel-30 membrane	30	24	UFC803024
Amicon Ultra-4 Centrifugal Filter Unit with Ultracel-50 membrane	50	24	UFC805024
Amicon Ultra-4 Centrifugal Filter Unit with Ultracel-100 membrane	100	24	UFC810024

* Nominal Molecular Weight Limit or membrane cut-off in kDa

Description	Qty/Pk	Catalogue no.
Western Blotting		
SNAP i.d.™ Protein Detection System Includes hardware base, blot holder sample pack, blot roller, vacuum tubing user guide.	1 kit	WBAVDBASE

Description	Size	Qty/Pk	Catalogue no.
Immobilon®-P Transfer membrane (0.45 µm)			
Cut Sheet	8 x 10 cm	10	IPVH08100
	10 x 10 cm	10	IPVH10100
	20 x 20 cm	10	IPVH20200
Roll	26.5 x 375 cm	1	IPVH00010
Immobilon-PSQ Transfer membrane (0.2 µm)			
Cut Sheet	8 x 10 cm	10	ISEQ08100
	10 x 10 cm	10	ISEQ10100
	20 x 20 cm	10	ISEQ20200
Roll	26.5 x 375 cm	1	ISEQ00010
Immobilon-FL Transfer membrane (0.45 µm)			
Cut Sheet	10 x 10 cm	10	IPFL10100
Roll	26.5 x 3.75 cm	1	IPFL00010
Blotting Sandwiches			
Immobilon-P Blotting Sandwich	7 x 8.4 cm	20	IPSN07852
	8.5 x 13 cm	20	IPSN08132

Description	Qty/Pk	Catalogue no.
Western Blot Detection Substrates		
Immobilon Western Chemiluminescent HRP Substrate	100 mL	WBKLS0100
Immobilon Western Chemiluminescent AP Substrate	100 mL	WBKDS0100
Spray & Glow™ ECL Western Blotting Detection System	100 mL	17-373

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