

ChIP-Grade Protein G Magnetic Beads

✓ 1 ml
(30 immunoprecipitations)

Orders ■ 877-616-CELL (2355)
orders@cellsignaling.com

Support ■ 877-678-TECH (8324)
info@cellsignaling.com

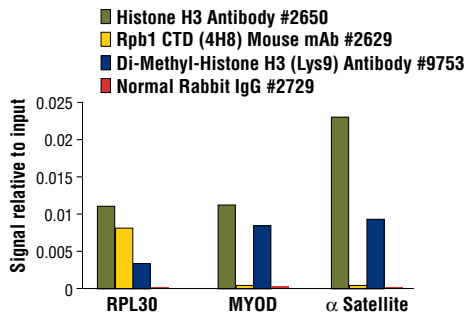
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New 03/08

This product is for *in vitro* research use only and is not intended for use in humans or animals.

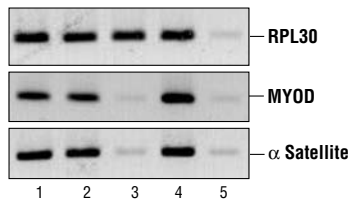
Description: ChIP-Grade Protein G Magnetic Beads are an affinity matrix for the small-scale isolation of immunocomplexes from chromatin immunoprecipitation (ChIP) assays. A truncated form of recombinant protein G is covalently coupled to a nonporous paramagnetic particle. Protein G exhibits high affinity for subclasses of IgG from many species (including human, rabbit, mouse, rat and sheep) and can be used for immunoprecipitation assays with these antibodies. The beads are stored in buffer containing BSA (1 mg/ml) and sonicated salmon sperm DNA (200 µg/ml) to block non-specific binding of proteins and DNA during isolation of immunocomplexes. Beads can be separated from solution using our 6-Tube Magnetic Separation Rack #7017, which concentrates the beads to the side of the tube instead of the bottom. This eliminates centrifugation steps, minimizes sample loss and increases washing efficiency.

Quality Control: The beads are routinely tested in our SimpleChIP™ Enzymatic Chromatin IP Kit (Magnetic Beads) #9003.



Chromatin immunoprecipitations were performed using digested chromatin from HeLa cells and the indicated antibodies. Purified DNA was analyzed by quantitative Real-Time PCR, using primers specific for the transcriptionally active RPL30 gene, the inactive MYOD gene or the heterochromatic α satellite repeat element. The relative abundance of each DNA sequence enriched by protein-specific immunoprecipitations is compared to the amount of the same DNA sequence enriched by the non-specific Normal Rabbit IgG #2729 (background).

Directions for Use: Vortex tube briefly to resuspend the beads. Add 30 µl of bead slurry to each chromatin immunoprecipitation (ChIP) reaction. For bead washing and subsequent elution of immunocomplexes, the beads can be separated from solution using our 6-Tube Magnetic Separation Rack #7017. Place the tubes containing the beads in the Magnetic Separation Rack and wait 1 to 2 minutes for the solution to clear before carefully removing the supernatant. Remove the tubes from the Magnetic Separation Rack, add new solution and resuspend the beads by gently vortexing or rocking the tube.



Chromatin immunoprecipitations were performed using digested chromatin from HeLa cells and either Histone H3 Antibody #2650 (lane 2), Rpb1 CTD (4H8) Mouse mAb #2629 (lane 3), Di-Methyl Histone H3 (Lys9) Antibody #9753 (lane 4), or Normal Rabbit IgG #2729 (lane 5). Purified DNA was analyzed by standard PCR methods using primers specific for the transcriptionally active RPL30 gene, the inactive MYOD gene or the heterochromatic α satellite repeat element. PCR products were observed for each primer set in the input sample (lane 1) and various protein-specific immunoprecipitations, but not in the immunoprecipitation using Normal Rabbit IgG #2729 (lane 5).

Storage: Supplied in PBS Buffer (pH 7.2), 0.05% Tween-20, 1 mg/ml BSA, 200 µg/ml sonicated salmon sperm and 0.02% sodium azide. Store at 4°C.

Companion Products:

6-Tube Magnetic Separation Rack #7017

SimpleChIP™ Enzymatic Chromatin IP Kit (Magnetic Beads) #9003

Normal Rabbit IgG #2729

Di-Methyl-Histone H3 (Lys4) (C64G9) Rabbit mAb #9725

Di-Methyl-Histone H3 (Lys4) Antibody #9726

Tri-Methyl-Histone H3 (Lys4) (C42D8) Rabbit mAb #9751

Di-Methyl-Histone H3 (Lys9) Antibody #9753

Pan-Methyl-Histone H3 (Lys9) Antibody #4069

Tri-Methyl-Histone H3 (Lys27) Antibody #9756

Acetyl-Histone H3 (Lys9) (C5B11) Rabbit mAb #9649

Acetyl-Histone H3 (Lys9/Lys14) Antibody #9677

Rpb1 CTD (4H8) Mouse mAb #2629