

# ChIP-Grade Protein G Magnetic Beads

- 1 ml (30 immunoprecipitations)
- Sample Size



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**For Research Use Only. Not For Use In Diagnostic Procedures.**

**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) 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. These beads are compatible with ChIP-seq.

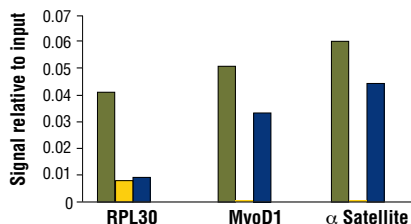
**Quality Control:** The beads are routinely tested in our SimpleChIP® Enzymatic Chromatin IP Kit (Magnetic Beads) #9003.

**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.

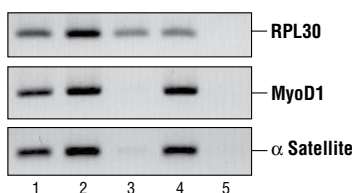
**Storage:** Supplied in PBS Buffer (pH 7.2), 0.05% Tween®20, 1mg/ml BSA, and 0.05% sodium azide. Store at 4°C.

**Please visit [www.cellsignal.com/technologies/chip.html](http://www.cellsignal.com/technologies/chip.html) for a complete listing of recommended companion products.**

- Histone H3 (D2B12) XP® Rabbit mAb (ChIP Formulated) #4620
- Rpb1 CTD (4H8) Mouse mAb #2629
- Di-Methyl-Histone H3 (Lys9) Antibody #9753
- Normal Rabbit IgG #2729



Chromatin immunoprecipitations were performed using digested chromatin from HeLa cells and the indicated antibodies. Purified DNA was analyzed by quantitative Real-Time PCR, using SimpleChIP® Human RPL30 Exon 3 Primers #7014, SimpleChIP® Human MyoD1 Exon 1 Primers #4490, and SimpleChIP® Human α Satellite Repeat Primers #4486. 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).



Chromatin immunoprecipitations were performed using digested chromatin from HeLa cells and either Histone H3 (D2B12) XP® Rabbit mAb (ChIP Formulated) #4620 (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 SimpleChIP® Human RPL30 Exon 3 Primers #7014, SimpleChIP® Human MyoD1 Exon 1 Primers #4490, and SimpleChIP® Human α Satellite Repeat Primers #4486. 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).