#5415 Store at -20°C

Mouse (G3A1) mAb IgG1 Isotype Control

Cell Signaling TECHNOLOGY®

☑ 250 µg

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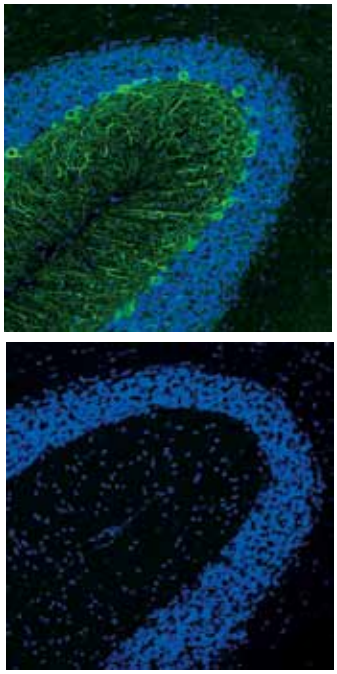
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

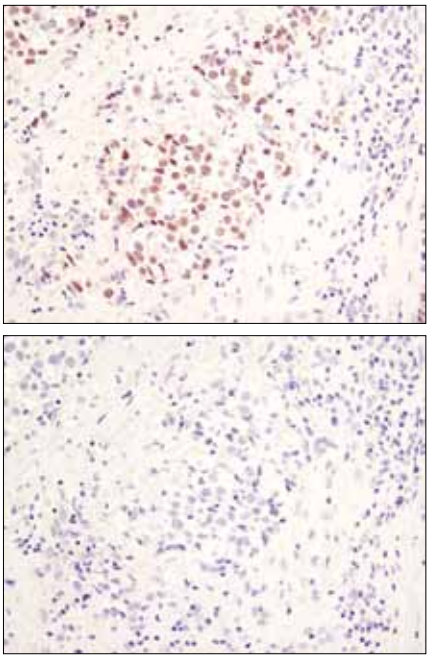
Applications	Concentration	Isotype
IP, IHC-P, IF-IC, IF-F, F, ChIP	2.5 mg/ml	Mouse IgG1

Background: Isotype control antibodies are used to estimate the non-specific binding of target primary antibodies due to F_c receptor binding or other protein-protein interactions. An isotype control antibody should have the same immunoglobulin type and be used at the same concentration as the test antibody.

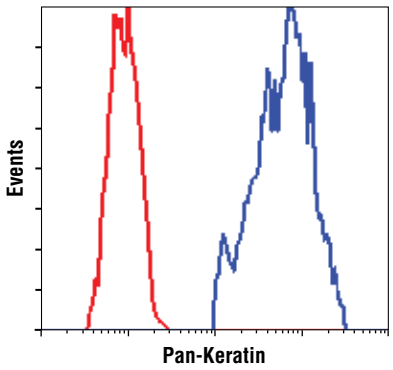
Specificity/Sensitivity: Mouse (G3A1) mAb IgG1 Isotype Control is not directed against any known antigen. It functions as an isotype control for mouse IgG1 monoclonal antibodies.



Confocal immunofluorescent analysis of normal rat cerebellum using Neurofilament H (RMdO 20) Mouse mAb #2836 (green, upper) compared to concentration matched Mouse (G3A1) mAb IgG1 Isotype Control (green, lower). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



Immunohistochemical analysis of paraffin-embedded human seminoma using Nanog (1E6C4) Mouse mAb #4893 (upper) or Mouse (G3A1) mAb IgG1 Isotype Control (lower).



Flow cytometric analysis of MCF7 cells using Pan-Keratin (C11) Mouse mAb #4545 (blue) compared to concentration-matched Mouse (G3A1) mAb IgG1 Isotype Control (red).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. *Do not aliquot the antibody.*

Note: This control antibody must be diluted to the same concentration (not dilution) as the specific antibody in analysis. See Directions for Use.

For application specific protocols please see the web page for this product at www.cellsignal.com.

Directions for Use: Important! Dilute this control antibody to the same concentration (not dilution) as the specific antibody used for analysis. Higher background may result if excessive amounts of mouse IgG1 isotype control is used.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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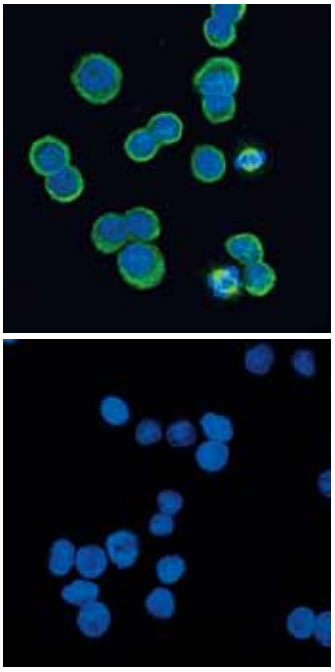
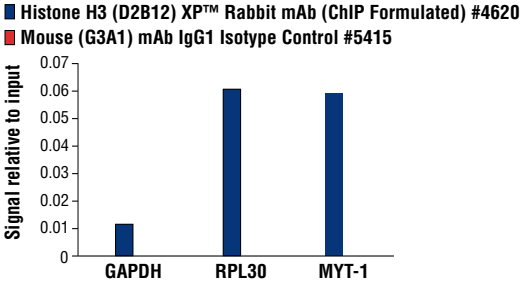
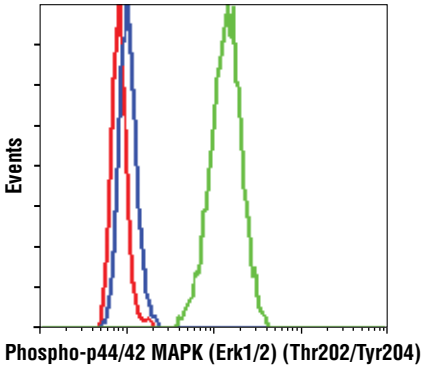
Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide



Confocal immunofluorescent analysis of HT-29 cells using α-Tubulin (DM1A) Mouse mAb #3873 (green, upper) compared to concentration matched Mouse (G3A1) mAb IgG1 Isotype Control (green, lower). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



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 GAPDH Exon 1 Primers #5516, SimpleChIP® Human RPL30 Exon 3 Primers #7014, and SimpleChIP® Human MYT-1 Exon 1 Primers #4493. The relative abundance of each DNA sequence enriched by Mouse (G3A1) mAb IgG1 Isotype Control (red) is compared to the amount of the same DNA sequence enriched by the histone H3-specific immunoprecipitations (blue).



Flow cytometric analysis of Jurkat cells, U0126-treated (blue) or TPA-treated (green), using Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (E10) Mouse mAb #9106 compared to concentration-matched Mouse (G3A1) mAb IgG1 Isotype Control (red).

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