

#4097 Store at -20°C

# Mouse (MOPC-21) mAb IgG1 Isotype Control (Biotinylated)

✓ 50 µg



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New 1/10

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.

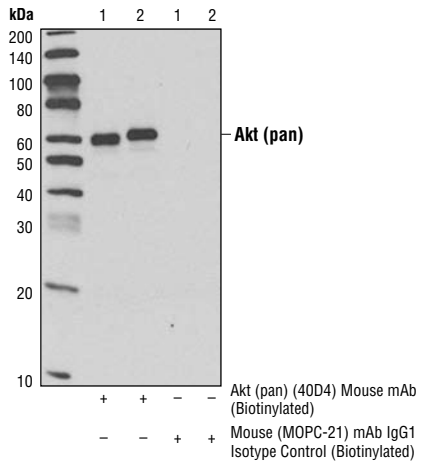
Applications	Concentration	Isotype
IP, F	0.5 mg/ml	Mouse IgG1

**Description:** This Cell Signaling Technology monoclonal antibody is conjugated to biotin under optimal conditions.

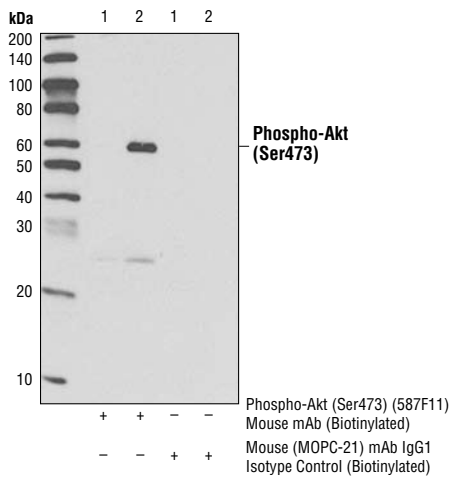
**Background:** Isotype control antibodies are used to estimate the non-specific binding of target primary antibodies due to F<sub>c</sub> receptor binding or other protein-protein interactions. An isotype control antibody should have the same immunoglobulin type and be used at the same concentration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

**Specificity/Sensitivity:** Mouse (MOPC-21) mAb IgG1 Isotype Control (Biotinylated) has unknown specificity and was chosen as an isotype control after screening on a variety of resting, activated, live, and fixed rat and human tissues.

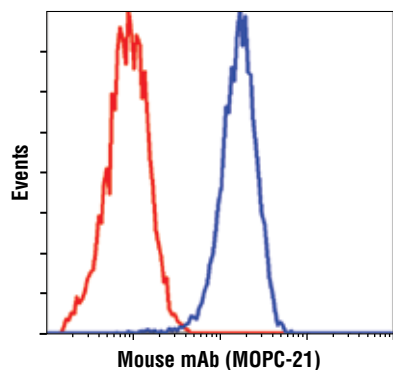
**Source/Purification:** Mouse (MOPC-21) mAb IgG1 Isotype Control (Biotinylated) was purified by affinity chromatography.



Immunoprecipitation of extracts from Jurkat cells treated with either LY294002 #9901 (1) or Calyculin A #9902 (2), using Akt (pan) (40D4) Mouse mAb (Biotinylated) #4821 and Mouse (MOPC-21) mAb IgG1 Isotype Control (Biotinylated). Immunocomplexes were pulled down using Immobilized Streptavidin (Bead Conjugate) #3419. Western blotting analysis was performed using Akt (pan) (C67E7) Rabbit mAb #4691.



Immunoprecipitation of extracts from Jurkat cells treated with either LY294002 #9901 (1) or Calyculin A #9902 (2), using Phospho-Akt (Ser473) (587F11) Mouse mAb (Biotinylated) #5102 and Mouse (MOPC-21) mAb IgG1 Isotype Control (Biotinylated). Immunocomplexes were pulled down using Immobilized Streptavidin (Bead Conjugate) #3419. Western blotting analysis was performed using Phospho-Akt (Ser473) (D9E) Rabbit mAb #4060.



Flow cytometric analysis of Jurkat cells using Akt (pan) (40D4) Mouse mAb (Biotinylated) #4821 (blue) compared to Mouse (MOPC-21) mAb IgG1 Isotype Control (Biotinylated) (red).

**Storage:** Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot antibody.

**Biotinylated antibodies are designed to be detected using streptavidin conjugates.**

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

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://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  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine  
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.