

#2372 Store at -20°C

β-Gal (14B7) Mouse mAb



100 μl
 (10 western blots)

Orders ■ 877-616-CELL (2355)
 orders@cellsignal.com
Support ■ 877-678-TECH (8324)
 info@cellsignal.com
Web ■ www.cellsignal.com

rev. 06/23/10

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.

Entrez-Gene ID #945006
Swiss-Prot Acc. #P00722

Applications	Species Cross-Reactivity*	Isotype
W, IP, IF-IC, F Transfected	All	Mouse IgG1**

Background: Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation and immunostaining techniques. Due to their small size, they are unlikely to affect the tagged protein's biochemical properties.

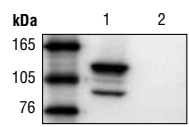
Eukaryotic genes can be cloned into E. coli β-galactosidase (lacZ) gene (1-3). This results in the expression of a fusion protein containing the desired protein with a β-gal tag. An antibody to this tag can then be used to isolate the fusion protein or detect its expression within cells or tissues.

Specificity/Sensitivity: β-Gal 14B7 Mouse mAb detects transfected β-galactosidase fusion proteins.

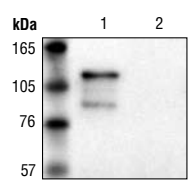
Source/Purification: Monoclonal antibody is produced by immunizing animals with recombinant β-galactosidase protein.

Background References:

- (1) Draber, P. et al. (1992) *Hybridoma* 11, 385-390.
- (2) Hayashibe, K. et al. (1990) *J. Immunoassay* 11, 89-95.
- (3) Shapiro, S. and Kimmel, B. (1987) *J. Immunol. Methods* 97, 275-279.



Western blot analysis of cells expressing β-galactosidase (lane 1) or cells without transfection (lane 2), using β-Gal (14B7) Mouse mAb.



Immunoprecipitation of cell extracts overexpressing β-galactosidase (lane 1) or cells without transfection (lane 2), using β-Gal (14B7) Mouse mAb, followed by Western blot analysis using the same antibody.

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.

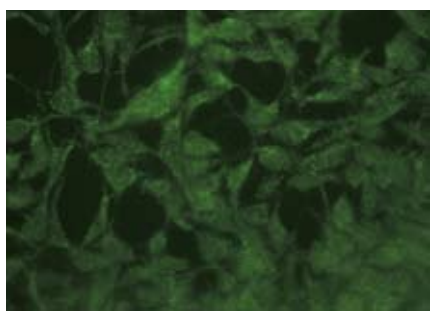
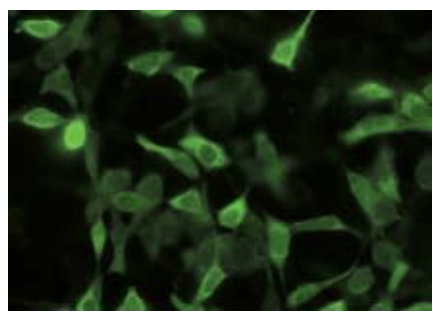
***Species cross-reactivity is determined by western blot.**
****Anti-mouse secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

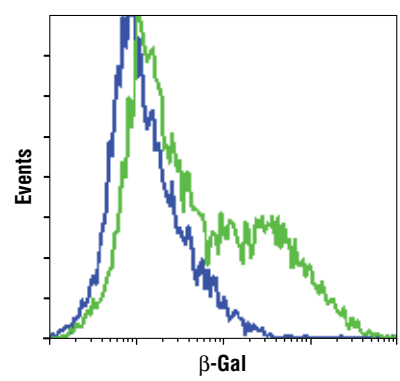
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (IF-IC)	1:3200
Flow Cytometry	1:7000

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

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



Immunocytochemical staining of cells expressing β-galactosidase (left) or cells without transfection (right), using β-Gal 14B7 Mouse mAb.



Flow cytometric analysis of COS cells, untransfected (blue) or transfected with β-galactosidase (green), using β-Gal (14B7) Mouse mAb.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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.