

#5014 Store at -20°C

GAPDH (14C10) Rabbit mAb (Biotinylated)



Orders ■ 877-616-CELL (2355)
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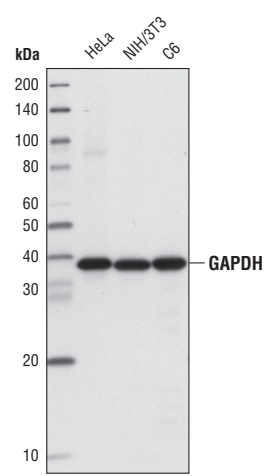
Applications	Species Cross-Reactivity	Molecular Wt.	Isotype
W Endogenous	H, M, R, Mk, B, (Pg)	37 kDa	Rabbit IgG

Description: This Cell Signaling Technology (CST) antibody is conjugated to biotin under optimal conditions. The unconjugated GAPDH (14C10) Rabbit mAb #2118 reacts with human, mouse, rat and monkey GAPDH. CST expects that GAPDH (14C10) Rabbit mAb (Biotinylated) will also recognize GAPDH in these species.

Background: Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. Though differentially expressed from tissue to tissue (1), GAPDH is thought to be a constitutively expressed housekeeping protein. For this reason, GAPDH mRNA and protein levels are often measured as controls in experiments quantifying specific changes in expression of other targets. Recent work has elucidated roles for GAPDH in apoptosis (2), gene expression (3) and nuclear transport (4). GAPDH may also play a role in neurodegenerative pathologies such as Huntington and Alzheimer's diseases (4,5).

Specificity/Sensitivity: GAPDH (14C10) Rabbit mAb (Biotinylated) detects endogenous levels of total GAPDH protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide near the carboxy terminus of human GAPDH.



Western blot analysis of extracts from HeLa, NIH/3T3 and C6 cells using GAPDH (14C10) Rabbit mAb (Biotinylated).

Entrez-Gene ID #2597
UniProt ID #P04406

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 the antibodies.

Biotinylated antibodies are designed to be detected using streptavidin conjugates.

Recommended Antibody Dilutions:
Western blotting 1:1000

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.

- Background References:**
- (1) Barber, R.D. et al. (2005) *Physiol. Genomics* 21, 389–95.
 - (2) Hara, M.R. and Snyder, S.H. (2006) *Cell Mol. Neurobiol.* 26, 527–38.
 - (3) Zheng, L. et al. (2003) *Cell* 114, 255–66.
 - (4) Bae, B.I. et al. (2006) *Proc. Natl. Acad. Sci. USA* 103, 3405–9.
 - (5) Wang, Q. et al. (2005) *FASEB J.* 19, 869–71.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

U.S. Patent No. 5,675,063

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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 All—all species expected