β-Catenin (D10A8)

VENDOR: Cell Signaling Technology

Cat #: 8480

SIMPLE WESTERN CERTIFIED ANTIBODY DATASHEET

View Antibody Link

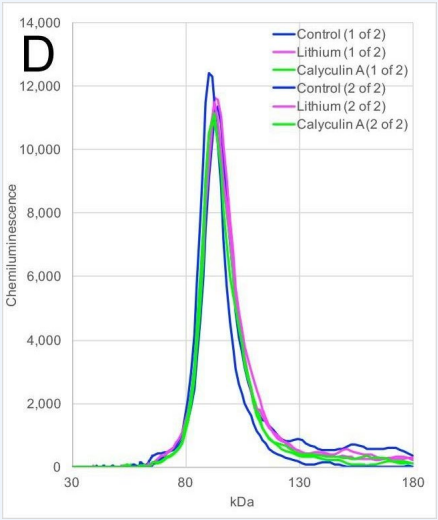

Figure 1: Development of a capillary electrophoresis method for quantitative analysis of phosphoproteins. A172 were treated with 20 mM LiCl for 24 h (pink curves) or 3 nM calyculin A for 1 h (green curves). Control cells were untreated (blue curves). There were two independent replicates per treatment. Cell lysates were subject to size separation by capillary electrophoresis, probed with six different primary antibodies, and secondary antibodies were used to generate a chemiluminescent signal. The electropherogram for each replicate is shown. (A) Peak for GAPDH. (B) Peak for total GSK3β. (C) Peak for phospho-Ser9-GSK3β. (D) Peak for total β-catenin. (E) Peak for phospho-Ser33/Ser37-β-catenin. (F) Peak for phospho-Ser33/Ser37/Thr41-β-catenin.

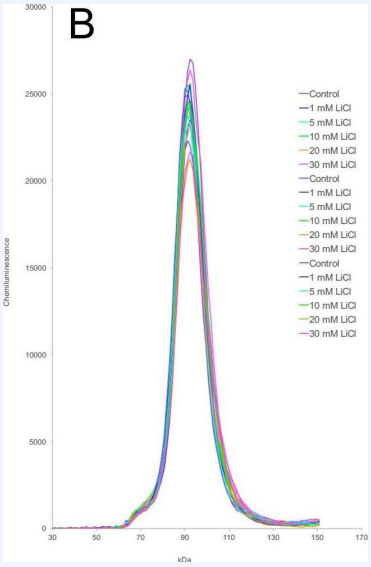

Figure 2: Capillary electrophoresis electropherograms showing the effect of lithium on phosphorylation of β-catenin. A172 cells were treated with 0 (purple), 1 (blue), 5 (cyan), 10 (green), 20 (orange), or 30 mM (pink) LiCl for 24 h (n=3/group). These are the same samples shown in Fig. 3 and Fig. S5, except that the 50 mM LiCl sample group is omitted to improve clarity. Samples were resolved by capillary electrophoresis and stained with antibodies against phospho-Ser33/Ser37-β-catenin (A) or total β-catenin (B). The electropherogram tracing for each of the 18 individual samples is shown.

PROTEIN TARGET/ANTIBODY	
Protein Target	β-Catenin (D10A8)
Protein Isoform	Unmodified
Antibody Type	Primary
Host Species/Clonality	Rabbit Monoclonal
ASSAY	
Sample Type	A-172
Sample Concentration	Not_Stated
Antibody Concentration/Dilution	1:250
Antibody Diluent	
Detection Mode	Chemiluminescence
Separation Type	Size
Matrix	12-230kDa
Observed kDa	Not_Stated

PUBLICATIONS

1. Abdul, A. U. R. M., De Silva, B., et al. The GSK3 kinase inhibitor lithium produces unexpected hyperphosphorylation of β-catenin, a GSK3 substrate, in human glioblastoma cells. Biol Open. 2018 Jan 26;7(1):NULL. 10.1242/BIO.030874. PMID:29212798.
2. Dong, Z., Dai, H., et al. Inhibition of the Wnt/β-catenin signaling pathway reduces autophagy levels in complement treated podocytes. Exp Ther Med. 2021 Jul;22(1):737. 10.3892/ETM.2021.10169. PMID:34055054.

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