

SUPPLEMENTAL MATERIAL

Supplemental Figure 1 A) Treatment of neurons with 500nM okadaic acid for 30 minutes substantially increases pSQ signal. B) Pretreatment of neurons with actinomycinD (ActD: 10 μ M) did not affect bicuculline-induced pSQ signal, treatment with TTX for 2 hours reduced pSQ signal, acute treatment with DHPG (50 μ M, 15 minutes) had no effect. C) Pretreatment of neurons with cyclohexamide (CyH: 50 μ M) did not affect bicuculline-induced pSQ signal. (D) Treatment with MG132 for 3 hours did not affect pSQ signal.

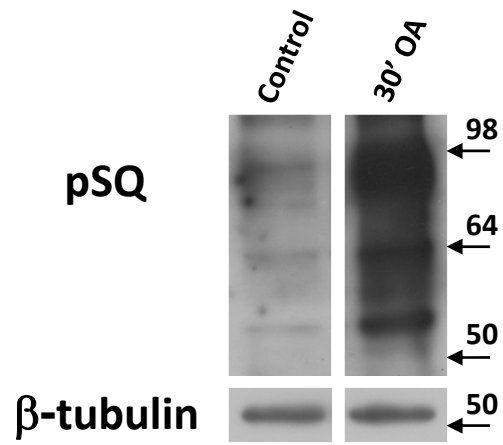
Supplemental Table 1 Robust bidirectional phosphorylation was observed on 150 substrate proteins. Far left column indicates phosphorylation ratio of proteins in Bic:TTX treated samples as measured by immunoaffinity purification and subsequent mass spec quantification of peptide sequences. Specific phosphorylation sites are identified and accession numbers listed. Phosphorylation site with % before it indicates that the phosphorylation site has been reported in the literature.

Supplementary Movie 3D projection of confocal z-stack image acquisition of immunostaining of ATM in primary neuronal culture.

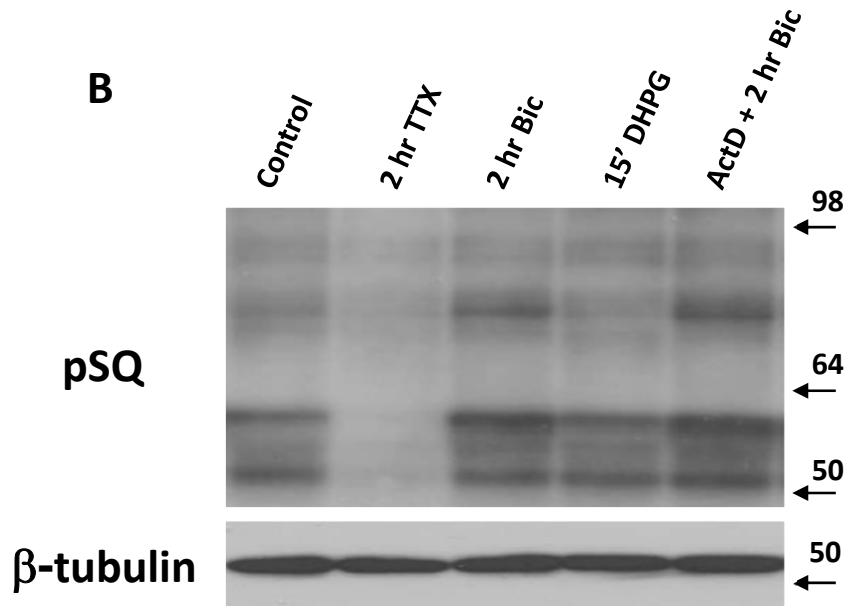
Supplementary Figure 1

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A



B



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