**Table S1.** Detail information of the phosphopeptides enriched from tryptic digests of rat brain using zirconium phosphate-modified magnetic mesoporous microspheres.

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dent protein kinase 1 | 1994 | 1 |
| .NIDQSEFEGFS*FVNSEFLKPEVK. | 65 | 2770.26 | -1.957 | 3 | 6.27 | 0.2 | 45/132 | 4.05 | MS2 | IPI:IPI00189278.4 | Gene_Symbol=Prkcb Isoform Beta-II of Protein kinase C beta type | 938 | 1 |
| .IYQFPDCDS*DEDEDFKLQDQALK. | 66 | 2899.20 | -0.814 | 3 | 6.27 | 0.4 | 44/132 | 3.52 | MS2 | IPI:IPI00421642.1 | Gene_Symbol=Sept4 EG3RVC | 1069 | 1 |
| .TAKDS*DDDDDVTVTVDR. | 67 | 1946.79 | -0.548 | 2 | 6.24 | 0.1 | 35/48 | 3.52 | MS2 | IPI:IPI00324381.5 | Gene_Symbol=Stx1a Syntaxin-1A | 1531 | 1 |
| .T*WTLCGTPEYLAPEILSK. | 68 | 2272.10 | -1.193 | 2 | 6.03 | 0.3 | 33/54 | 4.31 | MS2 | IPI:IPI00200013.4 | Gene_Symbol=Prkaca Isoform 1 of cAMP-dependent protein kinase catalytic subunit alpha | 1327 | 1 |
| .RAPPGPLPPAASPGPPAASPSSPR | 69 | 2648.33 | -1.392 | 3 | 5.89 | 0.5 | 57/162 | 12.5 | MS2 | IPI:IPI00464877.2 | Gene_Symbol=Hcn2 | 2030 | 3 |

Supplementary Material (ESI) for Nanoscale
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<td>1619.74</td>
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<td>1945.79</td>
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<td>1474.73</td>
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Supplementary Material (ESI) for Nanoscale
This journal is © The Royal Society of Chemistry 2011
| AS*PQR. | .TASLTSAA*S*IDGSR | 1416.64 | -1.054 | 2 | 3.30 | 0.1 | 27/39 | 6.5 | MS2 | Gene_Symbol=Dync1li1 Cytoplasmic dynein 1 light intermediate chain 1 | IPI:IPI00326606.4 Gene_Symbol=Ndrg2 Isoform 2 of Protein NDRG2 | 1017 | 1 |
| 143 | | | | | | | | | |
| .TIKS*PCDSGYSYE TIEK. | 2057.88 | -0.724 | 2 | 3.28 | 0.1 | 24/48 | 4.49 | MS2 | IPI:IPI00372009.3 Gene_Symbol=Map1b microtubule-associated protein 1B | | 380 | 3 |
| .CT*LQWEDEGQVV LNR. | 1926.84 | -1.608 | 2 | 3.26 | 0.1 | 24/42 | 3.87 | MS2 | IPI:IPI00358054.3 Gene_Symbol=Il12rb2 similar to Interleukin-12 receptor beta-2 chain precursor | | 889 | 2 |
| .HVPNS*IGFEVELQ LDWQK. | 2219.05 | -1.706 | 2 | 3.26 | 0.1 | 20/51 | 4.47 | MS2 | IPI:IPI00870485.1 Gene_Symbol=Itga5 integrin alpha 5 | | 435 | 1 |
| .Y*TFQDFTEQFQVL LPK. | 2083.98 | -1.108 | 2 | 3.23 | 0.1 | 21/45 | 4.11 | MS2 | IPI:IPI00339187.3 Gene_Symbol=Myo9b Myosin-IXb | | 462 | 1 |
| .SPFEISPPASPPPM T*GQR. | 2120.97 | -0.741 | 2 | 3.23 | 0.1 | 19/54 | 4.31 | MS2 | IPI:IPI00199693.2 Gene_Symbol=Map1a Microtubule-associated protein 1A | | 409 | 7 |
| 149  | .TAS*LTSAASIDGSR. | 1416.64 | -0.332 | 2 | 3.21 | 0.2 | 20/39 | 6.5 | MS2 | IPI:IPI00326606.4 Gene_Symbol=Ndrg2Isoform 2 of ProteinNDRG2 | 459 | 5 |
| 150  | .VENVKGAVWT*VDEVEYQK. | 2173.02 | -1.778 | 2 | 3.18 | 0.3 | 19/51 | 4.21 | MS2 | IPI:IPI00215203.4 Gene_Symbol=Foxp2similar to forkhead box P2 | 341 | 72 |
| 151  | .VQPHQVDILASCNLS*QGTR. | 2203.03 | -0.137 | 2 | 3.17 | 0.2 | 21/54 | 7.14 | MS2 | IPI:IPI00367050.3 Gene_Symbol=CD226CD226 molecule | 375 | 9 |
| 152  | .LDKGIPVSS*EAE R. | 1595.73 | -1.523 | 2 | 3.13 | 0.1 | 21/39 | 4.11 | MS2 | IPI:IPI00569865.1 Gene_Symbol=Ergic344 kDa protein | 978 | 1 |
| 153  | .S*KEQLNSYT. | 1149.48 | -0.804 | 2 | 3.12 | 0.5 | 19/24 | 6.72 | MS2 | IPI:IPI00206643.2 Gene_Symbol=Gpm6b36 kDa protein | 823 | 1 |

# Phosphorylation Site