Supplemental Figure S1

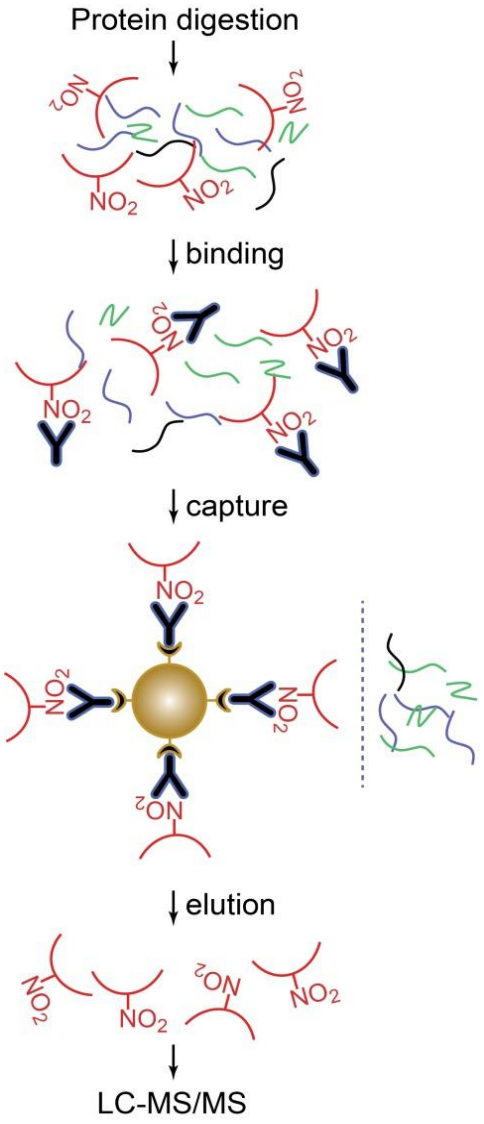

Figure S1. Schematic diagram of antibody-based enrichment of nitrotyrosine-containing peptides.

Supplemental Figure S2

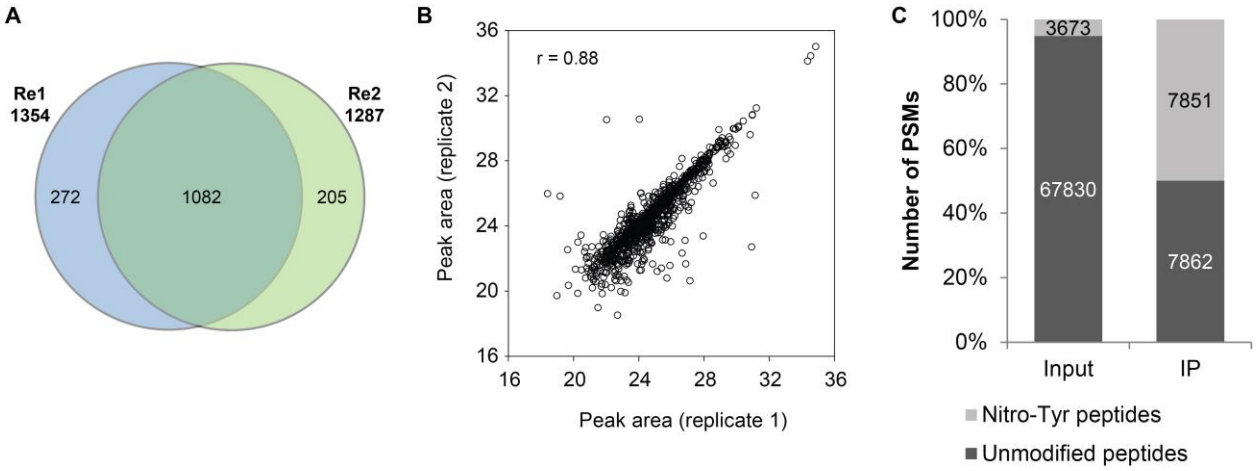

Figure S2. Enrichment of nitrotyrosine peptides from whole cell lysate of A549 cells. The cell extract was first *in vitro* nitrated, the proteins were digested and the peptides were subjected for MS analysis before and after anti-nitrotyrosine antibody enrichment. (A) Overlap of identified nitrotyrosine peptides from two replicates of IP enriched fraction. (B) Scatter plots of the correlation of the abundance of nitrotyrosine peptides between replicates. (C) The number of PSMs for non-nitrated peptides (black) and nitrotyrosine peptides (grey) identified from input and IP fraction.

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Supplemental Figure S3

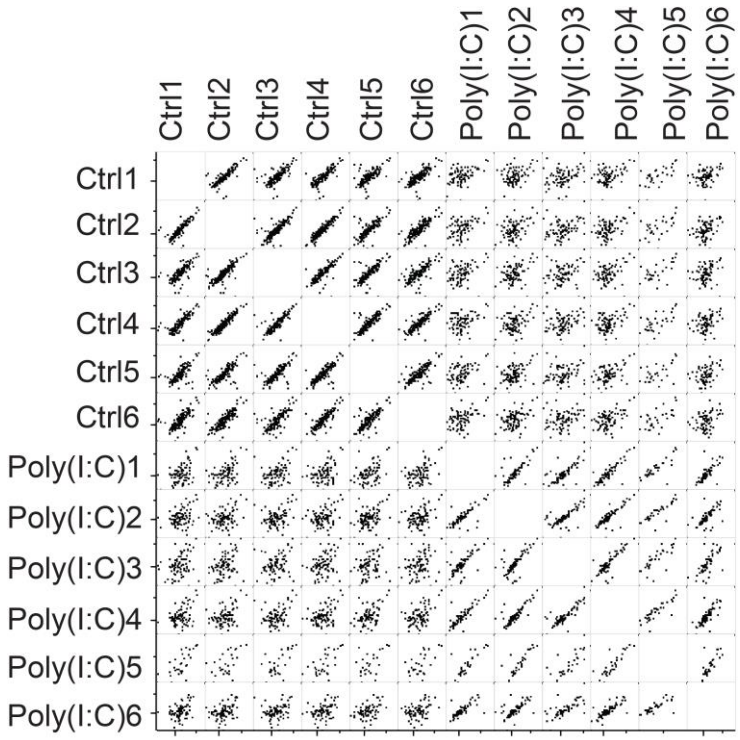

Figure S3 Multiple scatter plots of the correlation of the abundance of nitrotyrosine peptides between replicates.

Supplemental Table S3. The non-nitrated BSA peptides identified from LC-MS/MS analysis of tryptic digest of BSA (Input) and IP fraction from anti-nitrotyrosine antibody enrichment. The non-nitrated BSA peptides identified from input and IP fraction were consolidated in the table. The number of PMS of each peptide identified from each sample were tabulated. PSM, peptide spectrum match; IP, immunoprecipitation.

Sequence	# of PSMs		Sequence	# of PSMs	
	Input	IP		Input	IP
ATEEQLK	3	0	YICDNQDTISSK	18	0
CCAADDK	2	0	DAFLGSFLYEYSR	26	0
LCVLHEK	14	0	DDPHACYSTVFDK	35	0
LVTDLTK	4	0	LGEYGFQNALIVR	1	0
YIYEIAR	42	4	LKPDPNTLCDEFK	37	0
AEFVEVTK	75	1	QEPERNECFLSHK	1	0
DDSPDLPK	71	0	TCVADESHAGCEK	29	7
DLGEEHFK	30	0	ECCHGDLLECADDR	21	0
NECFLSHK	25	0	MPCTEDYLSLILNR	26	0
QNCDQFEK	1	0	VPQVSTPTLVEVSR	48	0
CCTESLVNR	25	1	YNGVFQECCQAEDK	1	0
QTALVELLK	19	0	HPYFYAPELLYYANK	14	3
SHCIAEVEK	16	1	KVPQVSTPTLVEVSR	41	2
DVCKNYQEAK	3	0	LFTFHADICTLPDTEK	118	2
EACFAVEGPK	36	2	NECFLSHKDDSPDLPK	1	0
ECCDKPLLEK	49	0	RHPYFYAPELLYYANK	4	0
KQTALVELLK	4	0	RPCFSALTPDETYVPK	46	0
LVNELTEFAK	5	0	CCAADDKEACFAVEGPK	9	0
FPKAEFVEVTK	2	0	VHKECCHGDLLECADDR	6	0
HLVDEPQNLIK	39	1	DAIPENLPPLTADFAEDK	120	0
HPEYAVSVLLR	29	5	HLVDEPQNLIKQNCDQFEK	1	0
ETYGDMADCCEK	18	0	TVMENFVAFVDKCCAADDK	14	0
EYEATLEECCAK	24	0	GLVLIAFSQYLQQCPFDEHVK	15	0
LKECCDKPLLEK	8	0	DAIPENLPPLTADFAEDKDVCK	6	0
RHPEYAVSVLLR	46	1	EYEATLEECCAKDDPHACYSTVFDK	4	0
SLHTLFGDELCK	38	5	DAIPENLPPLTADFAEDKDVCKNYQEAK	4	0
TVMENFVAFVDK	54	10	TVMENFVAFVDKCCAADDKEACFAVEGPK	5	0
VTKCCTESLVNR	7	0			