SUPPLEMENTAL DATA

INTRACELLULAR SHUTTLING AND MITOCHONDRIAL FUNCTION OF THIOREDOXIN-INTERACTING PROTEIN

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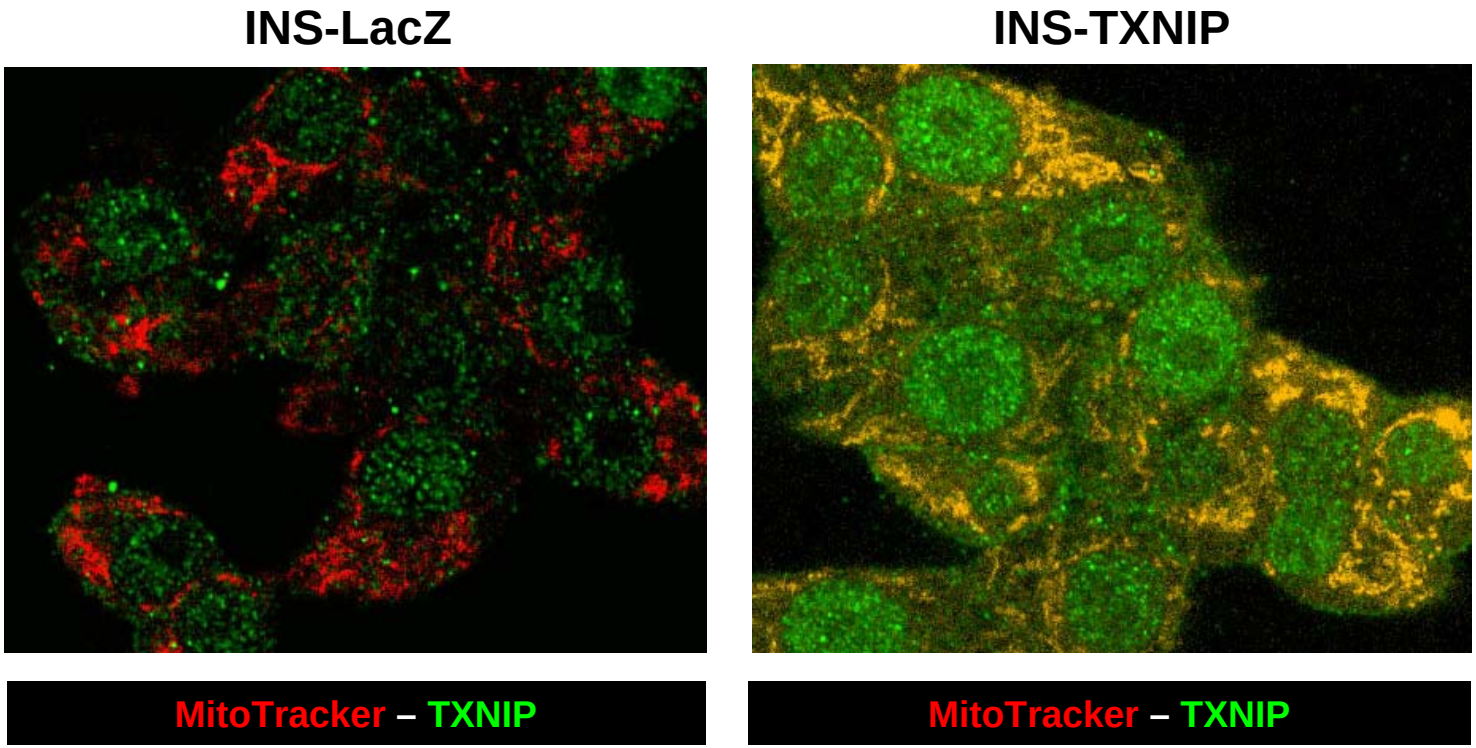

Figure S1: Immunohistochemistry using the JY2 anti-TXNIP antibody as described in the Experimental Procedures comparing control INS-LacZ and TXNIP-overexpressing INS-TXNIP cells.

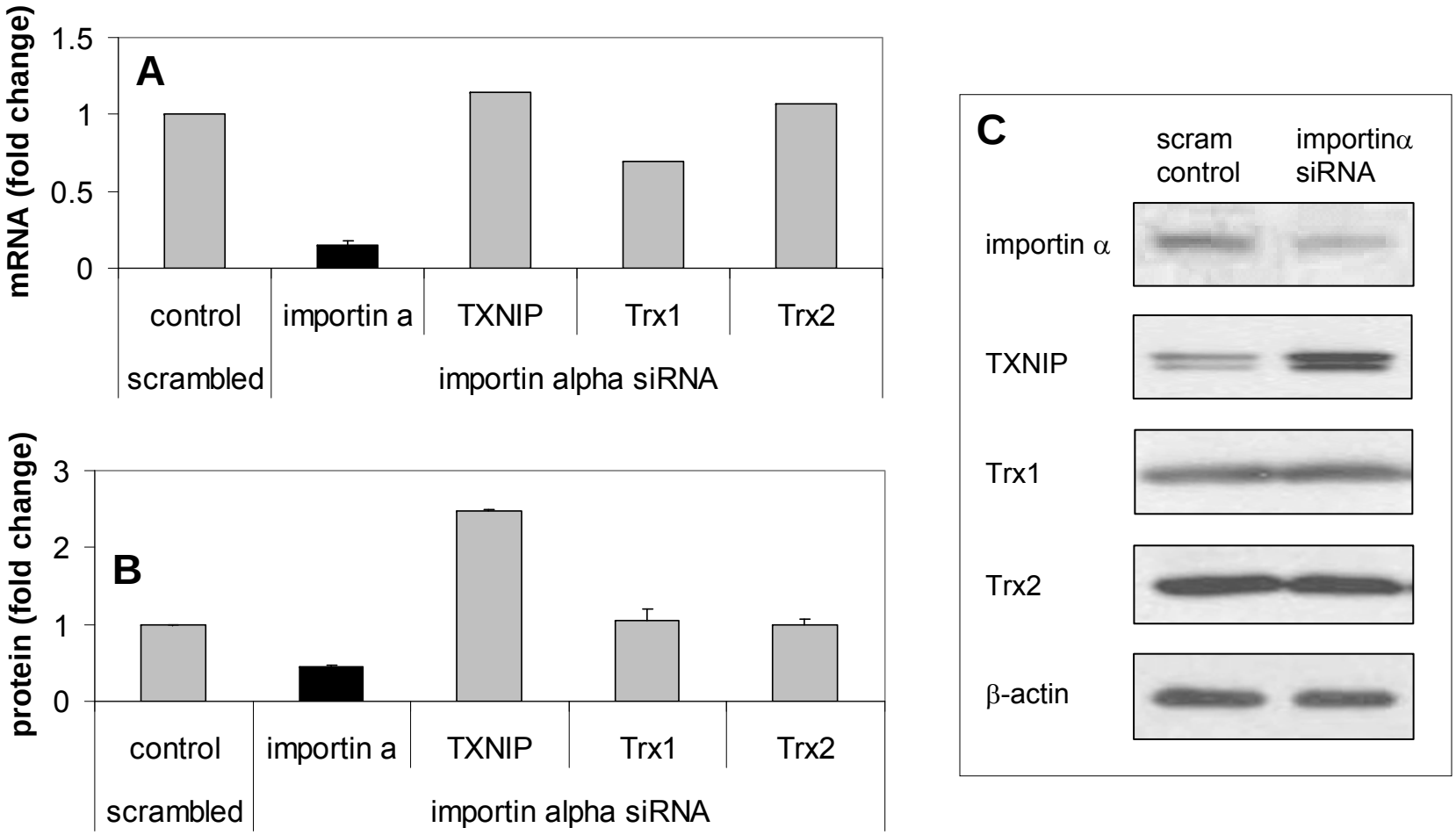

Figure S2: Demonstration of specific importin-α1 knockdown in INS-1 cells as compared to scrambled siRNA at the mRNA **(A)** and at the protein level **(B-C).**

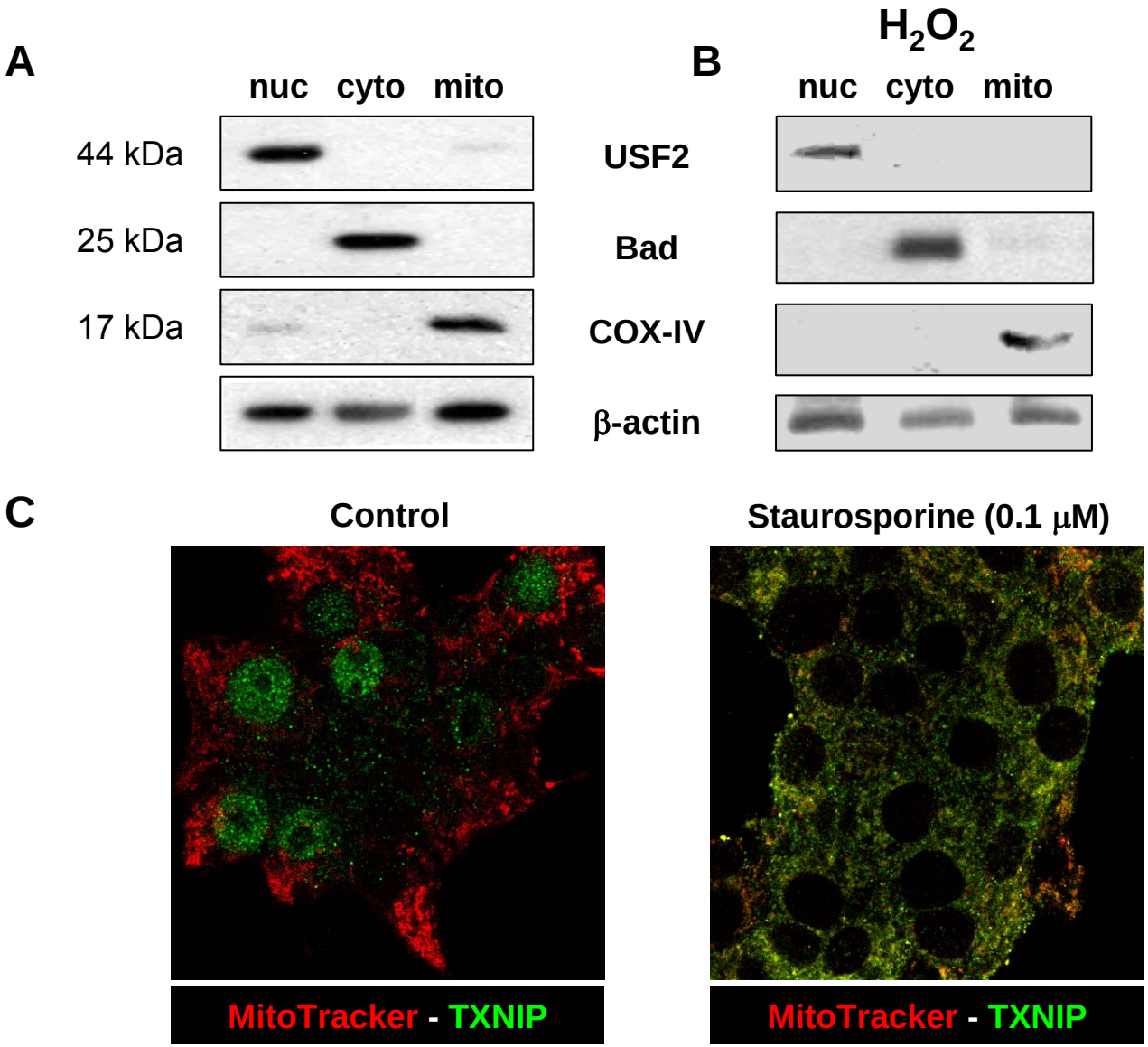

Figure S3: Confirmation of appropriate subcellular fractionation under control **(A)** and oxidative stress conditions **(B).** Confocal microscopy demonstrating TXNIP shuttling in response to staurosporin **(C).**

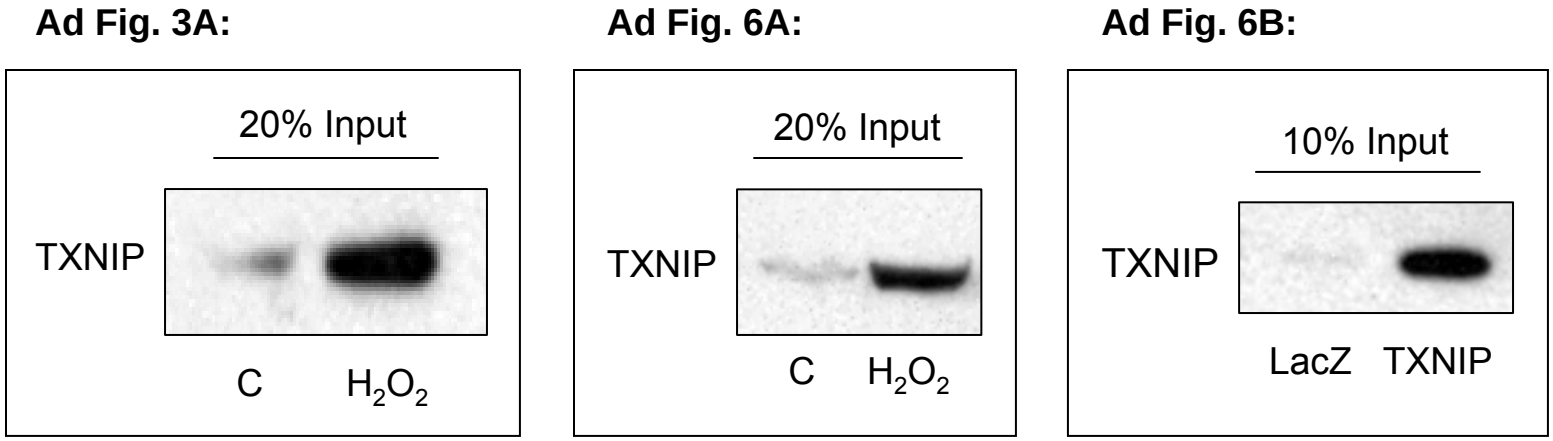

Figure S4: TXNIP input as measured by immunoblotting of mitochondrial fractions used for the co-immunoprecipitation experiments shown in Fig. 3A and 6A-B.

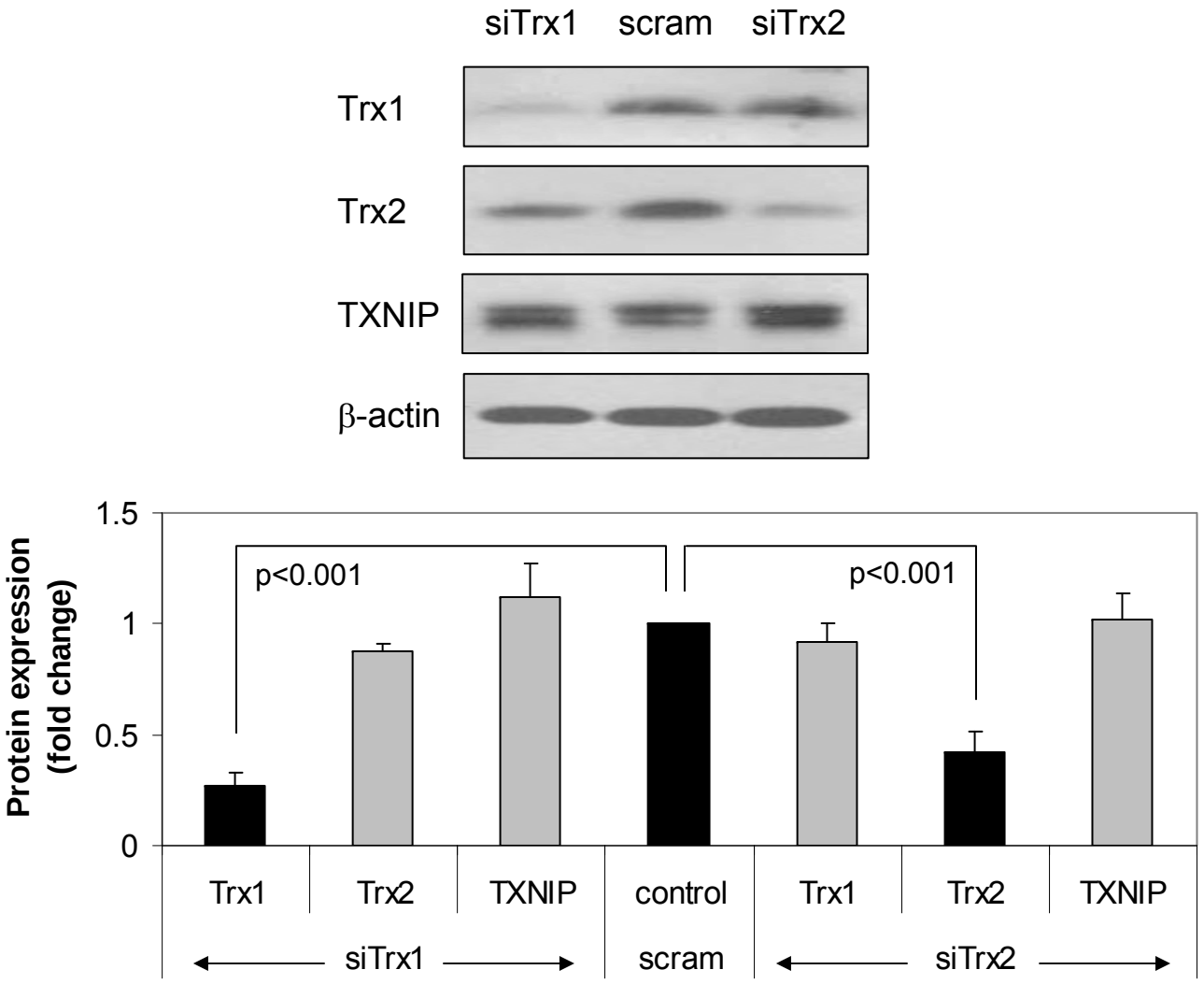

Figure S5: Specific knock down of thioredoxin 1 (with siTrx1) or 2 (with siTrx2) as shown by immunoblotting in INS-1 cells and compared to scrambled control.

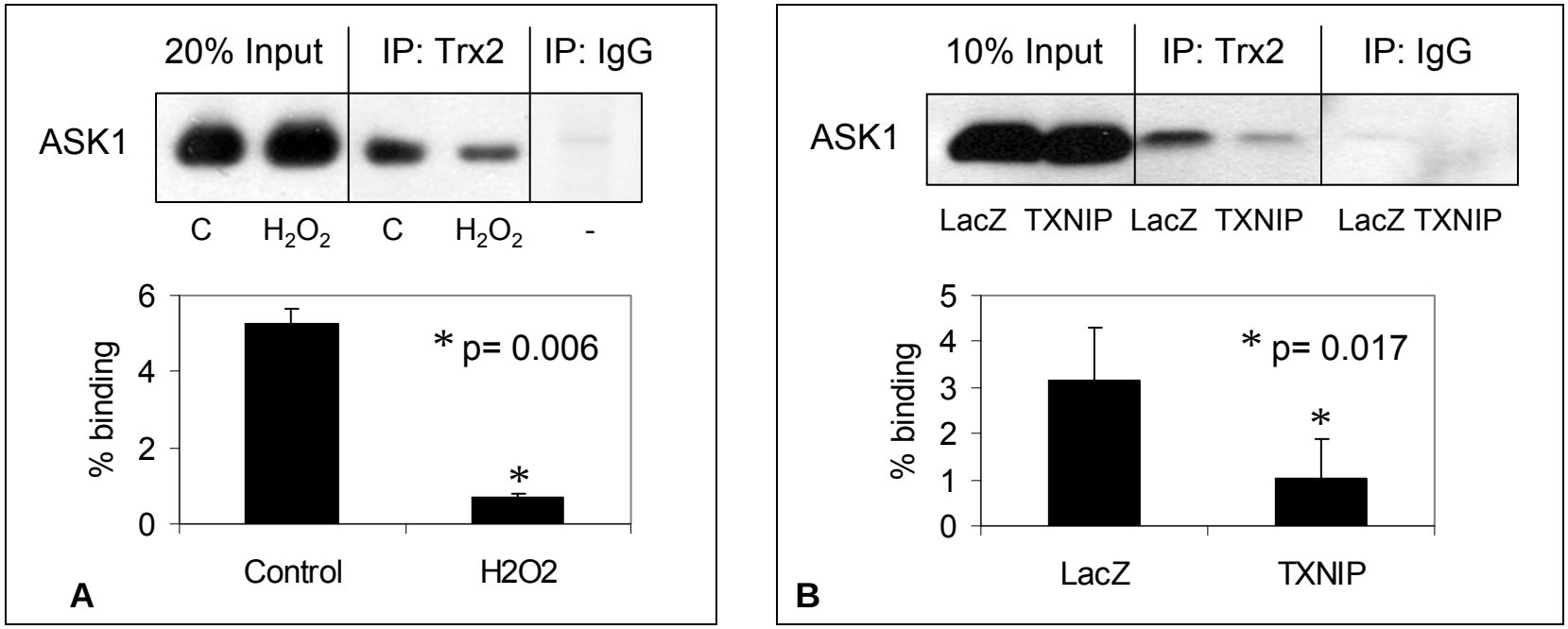

Figure S6: Trx2-ASK1 binding in response to oxidative stress **(A)** or TXNIP overexpression **(B)** as assessed by immunoprecipitation with thioredoxin 2. Bars represent means ±SEM of 3 independent experiments.