SUPPLEMENTAL FIGURE LEGENDS

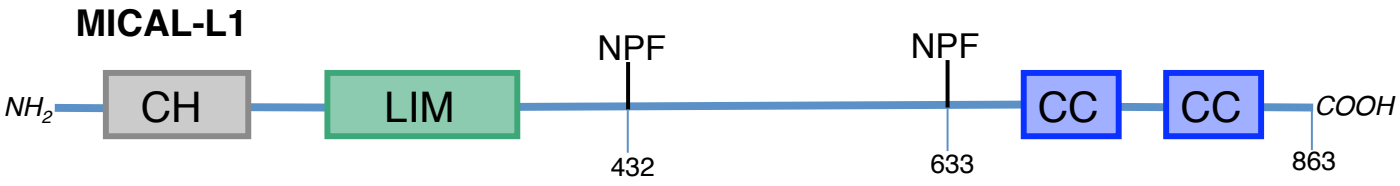
Fig. S1. Schematic diagram of MICAL-L1 domain architecture (*A*) and Crmp2 domain architecture (*B*). (*C*) Crmp2 is expressed in neuronal and non-neuronal cell lines. hTERT-RPE, SK-N-MC (human neuroblastoma cell line), SCC (squamous cell carcinoma), LnCaP, CaCo, A431, and human foreskin fibroblasts were harvested, lysed, separated by SDS-PAGE and immunoblotted with anti-Crmp2 and anti-actin antibodies. MICAL-L1= Molecule Interacting with CasL-Like1, CH= Calponin Homology, LIM= Lin11, Isl-1 and Mec-3, NPF= asparagine-proline-phenylalanine, CC= coiled-coil, Crmp2= Collapsin Response Mediator Protein 2, DHC= dynein heavy chain binding region, MT= microtuble association region, KLC= kinesin light chain binding region, DHPase homology= dihydropyriminidase homology domain (a region with considerable homology to the D-hydantoinases or dihydropyriminidases, a family of enzymes that catalyze the reversible hydrolytic ring opening of the amide bond in cyclic diamides. However, despite the homology, Crmp2 lacks most of the active site residues).

Fig. S2. Partial co-localization between Crmp2, α-tubulin and MICAL-L1. (*A-L*) HeLa cells were transfected with HA-Crmp2, and either Mock-treated (control; *A-C* and *G-I*) or treated with 66 μM nocodozole (*D-F* and *J-L*) for 2 h prior to fixation. Cells were immunostained with anti-HA and either anti-α-tubulin or anti-MICAL-L1 and analyzed by confocal microscopy. Arrows denote co-localized structures. Bar, 10 μm.

Fig. S3. Over-expression of siRNA-resistant-HA-Crmp2 rescues Tf-568 transport. (*A, B*) HeLa cells were either Mock-treated, treated with scrambled-siRNA or treated with Crmp2-siRNA oligonucleotides for 72 h. SiRNA-resistant-HA-Crmp2 was transfected for the last 48 h of the siRNA treatment, as indicated. Cells were harvested, lysed, separated by SDS-PAGE gel, and immunoblotted with either anti-Crmp2 or anti-actin antibodies. (*C-H*) Mock-treated or Crmp2-siRNA-treated cells were subjected to Tf-568 internalization for 5 min prior to fixation. Cells were then immunostained with anti-HA antibody and analyzed by confocal microscopy. Dashed borders depict siRNA-resistant-HA-Crmp2-transfected cells. Bar, 10 μm.

Supplemental Fig. 1

A



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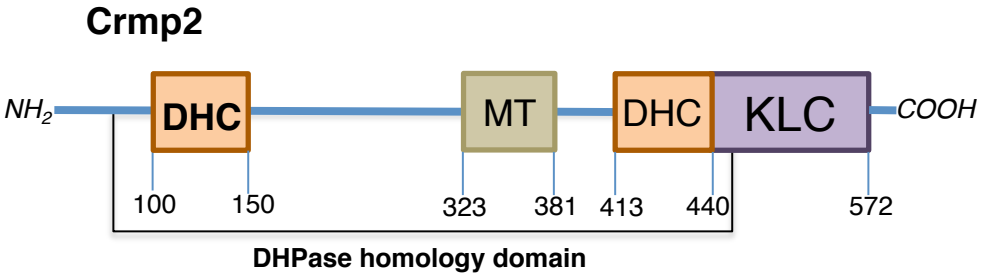

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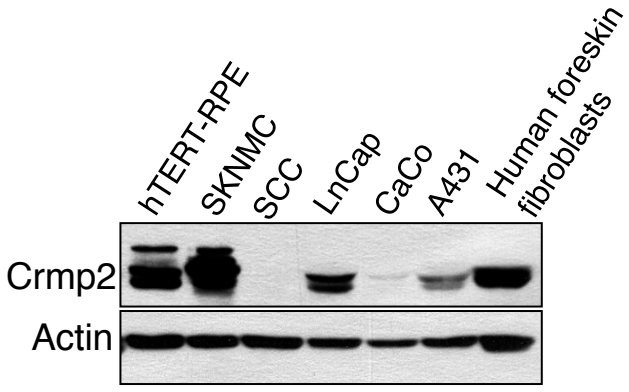
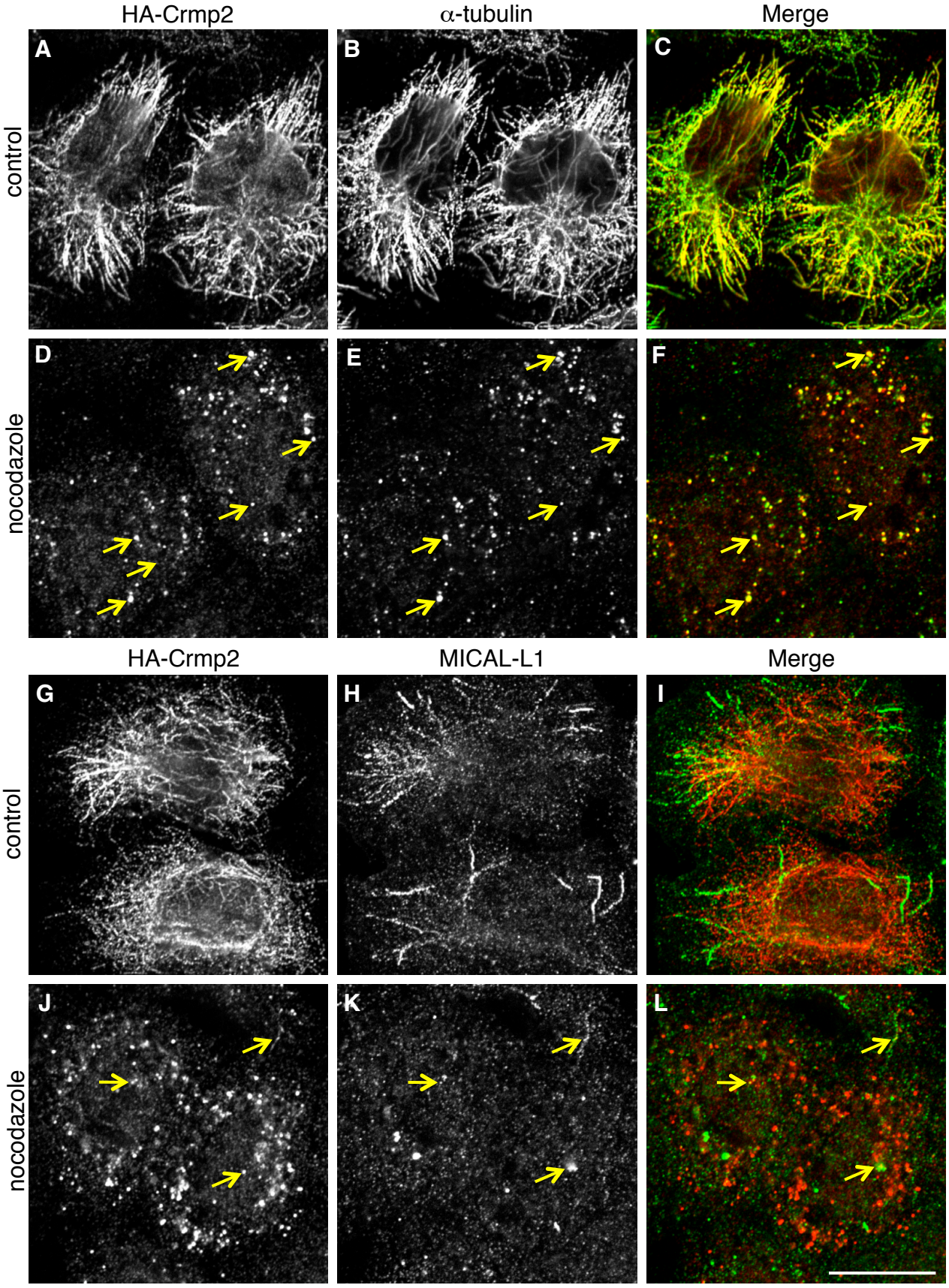


Supplemental Fig.2



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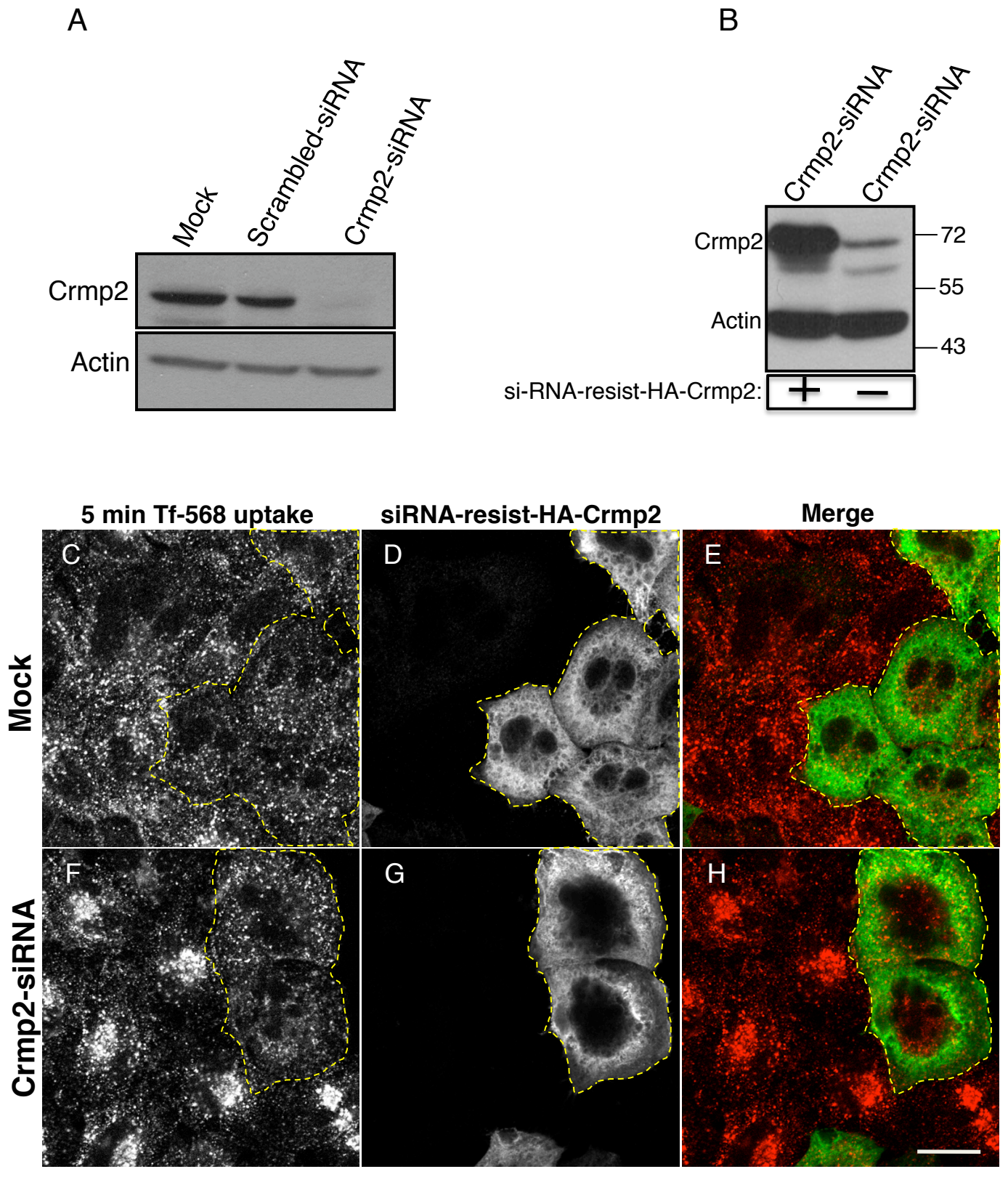
Supplemental Fig.3



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