Supplemental Data

The following materials are available in the online version of this article.

Supplemental Video S1. 3D reconstruction of maize PIN1 immunolocalization in the shoot apex of normal maize.

Supplemental Video S2. 3D reconstruction of maize PIN1 immunolocalization in the shoot apex of *abph1*.

Supplemental Figure S1. Maize PIN1 is detected by an Arabidopsis PIN1 antiserum

Supplemental Figure S2. *ABPH1* is not induced by auxin.

Supplemental Figure S3. Cytokinin treatment induces ZmPIN1a-YFP in the P_0 leaf primordium.

Supplemental Table S1. Contents of cytokinins, auxin and related compounds in normal and *abph1* embryos.

Supplemental Table S2. Quantification of ZmPIN1a-YFP fluorescence in the SAM of kinetin treated and control seedlings.