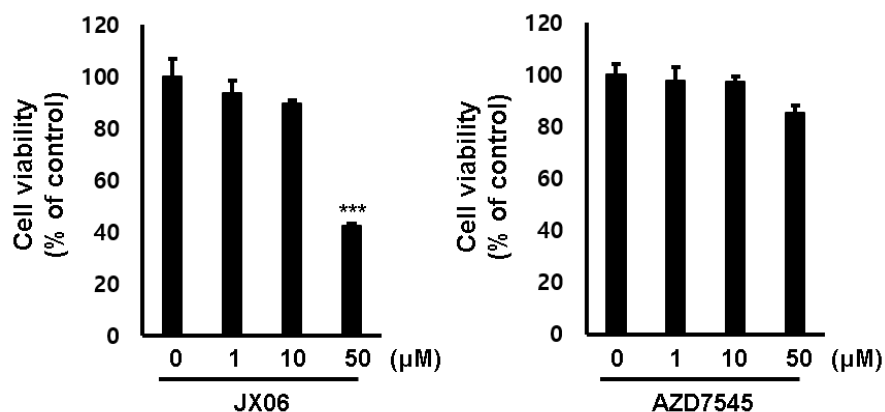


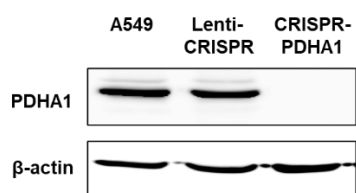
1 Supplementary Materials



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3 **Supplementary Figure S1. The cell viabilities of JX06, and AZD7545 in A549 cells.** The cells were treated with
4 JX06, and AZD7545 for 24 h. All experiments were performed at least three times, and data shown as the mean
5 \pm SD. Statistical analyses were performed using Student's *t*-test. ***, $p < 0.001$ compared with the control.

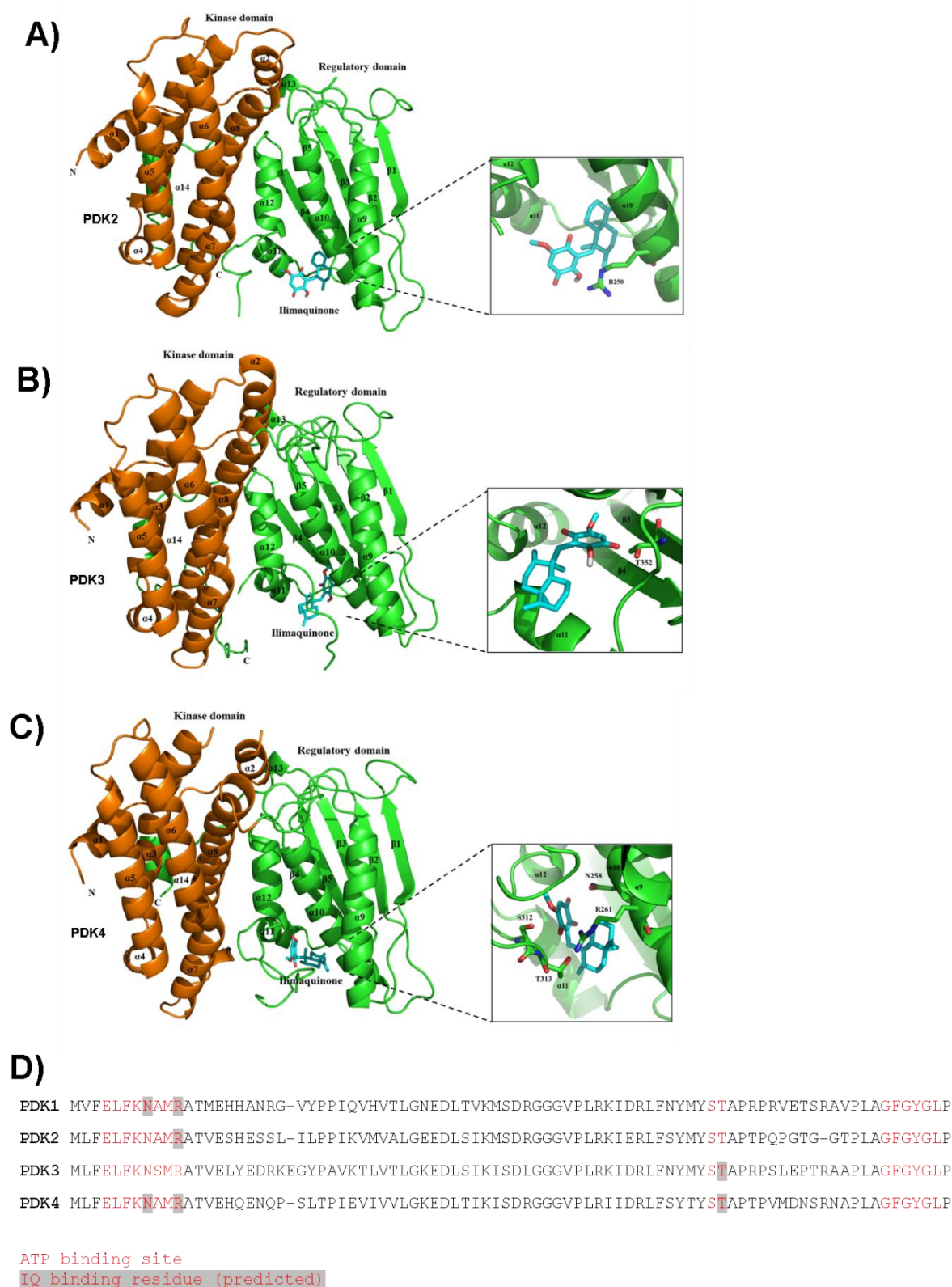
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8 **Supplementary Figure S2. Construction of PDHA1-knockout A549 cells.** The A549 cells were infected with
9 lentivirus harboring mock CRISPR vector or PDHA1-knockout vector. The protein expression levels of PDHA1
10 were determined via western blotting.

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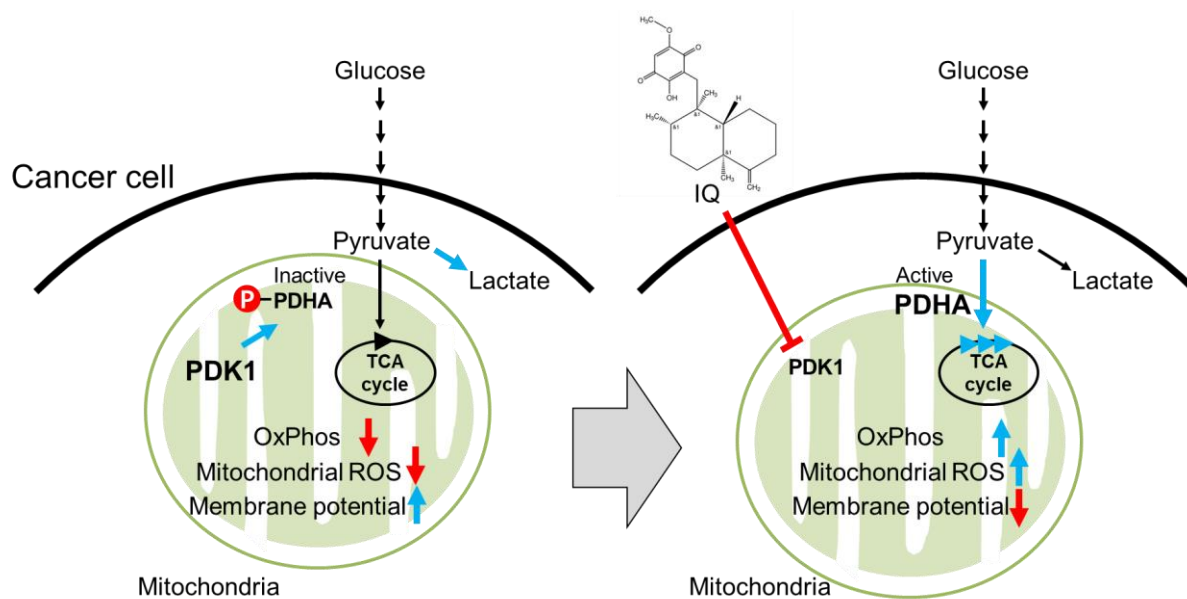
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Supplementary Figure S3. The interaction of PDK isoforms with IQ. The modeled structures of PDK isoforms 2 (PDB ID: 2BTZ), 3 (PDB ID:1Y8N), and 4 (PDB ID: 2E0A) with IQ (CID: 21727418) are shown as ribbons. The interaction residues between a PDK isoform and IQ are shown.

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Supplementary Figure S4. Schematic diagram of the mechanism of IQ-mediated apoptosis. The red circle and white P indicate phosphates.

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