Glucose-6-phosphate upregulates Txnip expression by interacting with MondoA

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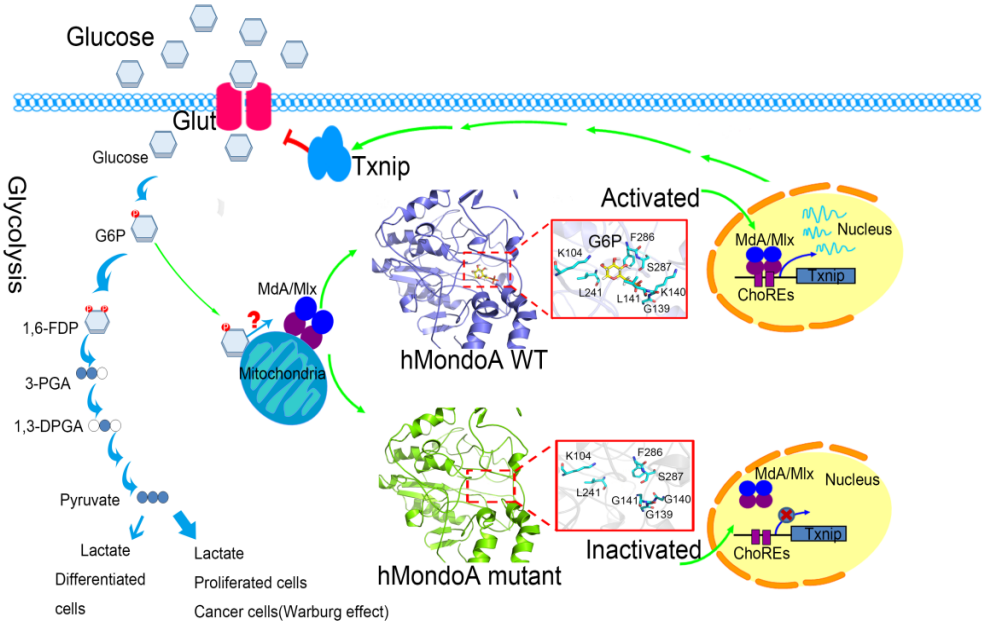

Figure S1 Schematic diagram for the expression of Txnip. G6P as an intermediate of glycolysis activated MondoA and induced the expression of Txnip by binding to hMondoA 139-141GKL.

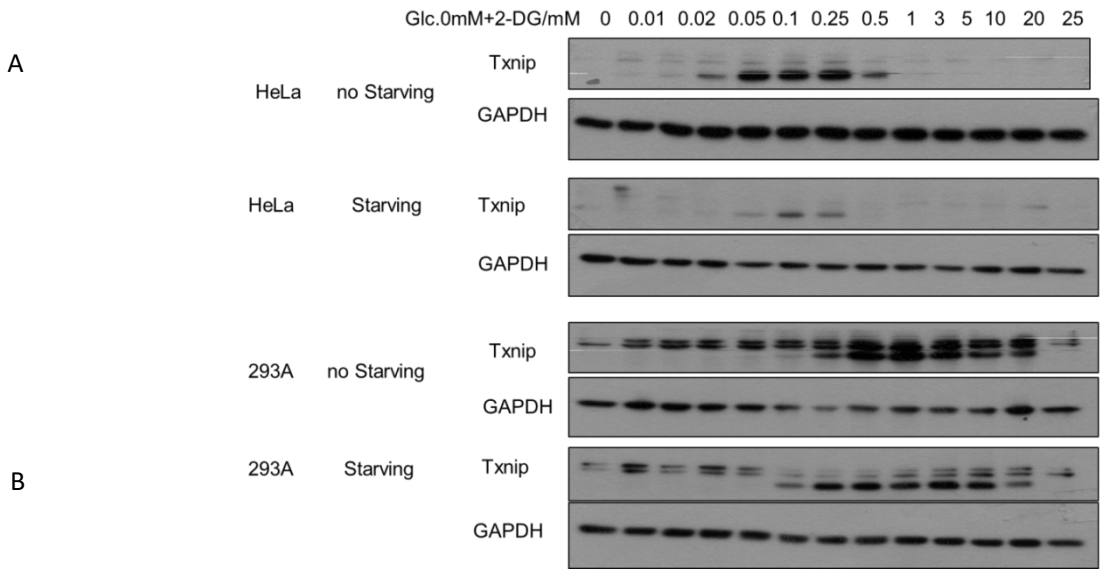

Figure S2 Changes in expression of Txnip after treating the cells with 2-DG 0 mM to 25 mM. (A)HeLa; (B) 293A.

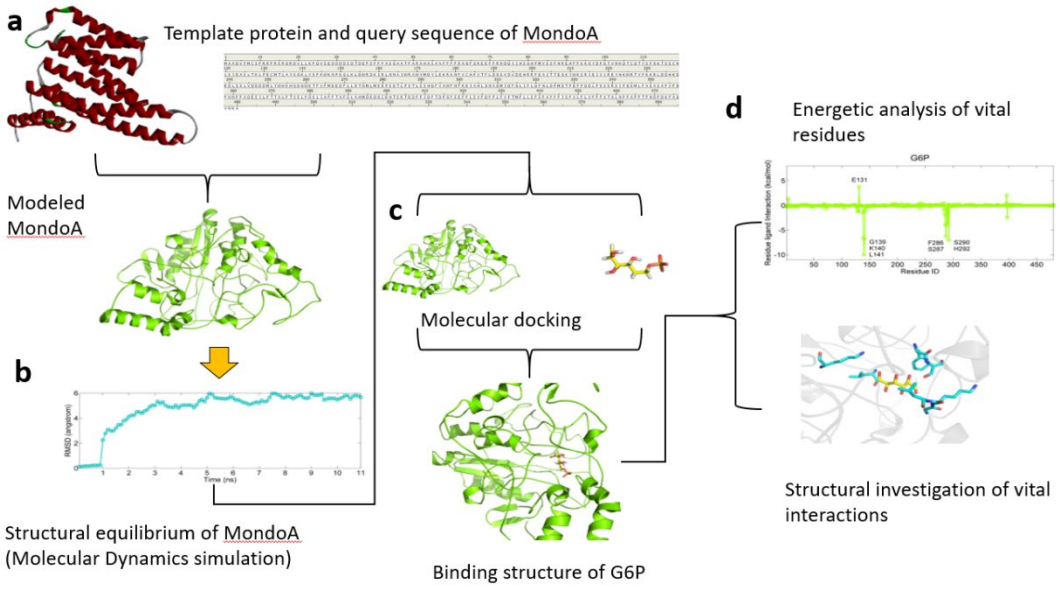

Figure S3 MondoA three-dimensional model modeling process demonstration. a) The Molecular Mechanics/Generalized Born Surface Area approach (MM/GBSA) was used for the binding free energy calculation and decomposition; b) Molecular Mechanics Minimization and Molecular Dynamics (MD) Simulation; c) Establishment of 3D model and flow chart of small molecule docking. MondoA three-dimensional model constructed by homology modeling; d) Deviation statistics (RMSD) for molecular dynamics optimization of the MondoA three-dimensional structural model after modeling.