

Supplementary information

Investigating the Impact of Asp181 Point Mutations on Interactions between PTP1B and Phosphotyrosine Substrate

Mengyuan Liu ¹, Lushan Wang ², Xun Sun ^{1, *}, Xian Zhao ^{1, *}

¹ State Key Laboratory of Crystal Materials, Shandong University, Jinan 250100, China,

² State Key Laboratory of Microbial Technology, Shandong University, Jinan 250100, China.

Correspondence and requests for materials should be addressed to X. S. (sunxun@icm.sdu.edu.cn)
and X. Z. (zhaoxian@icm.sdu.edu.cn)

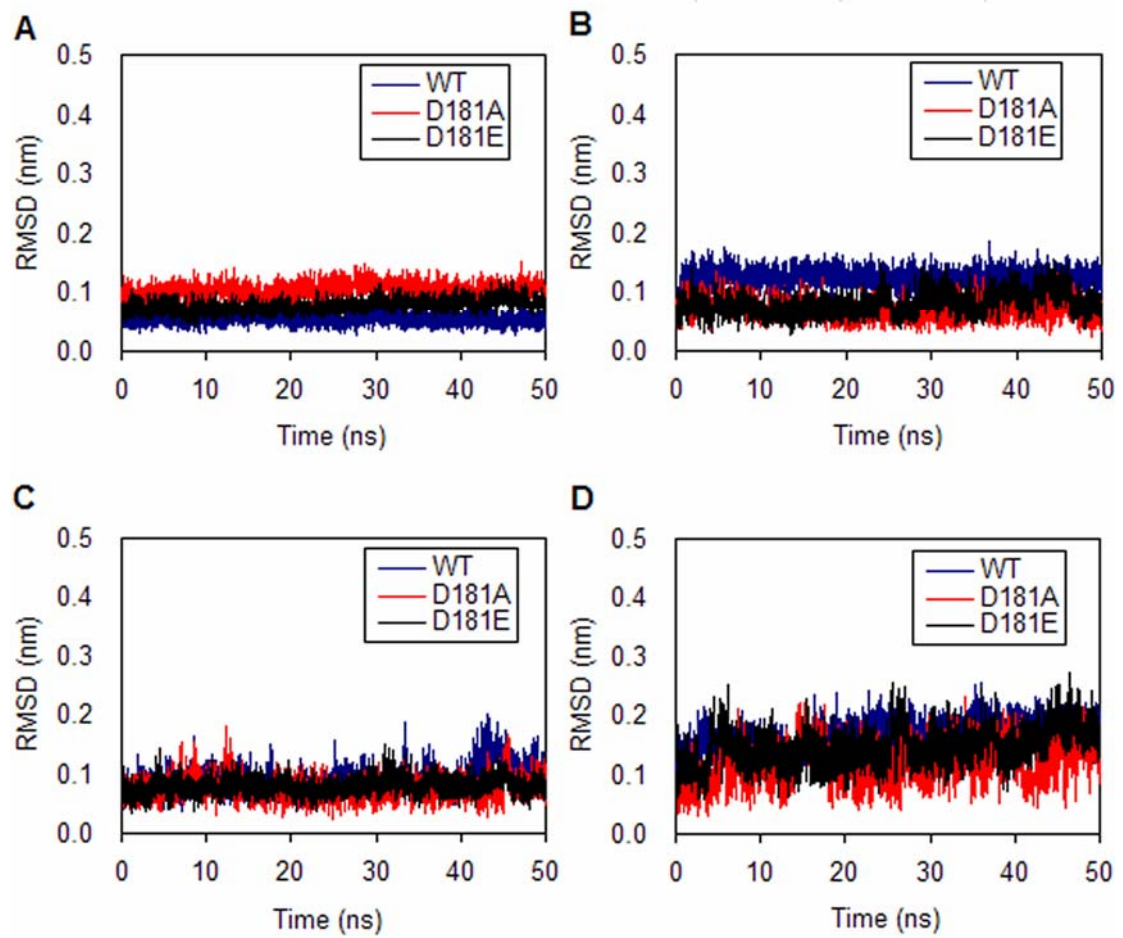


Figure S1 | Comparison of RMSD values in different regions. (A) P loop. (B) WPD loop. (C) Secondary aryl-phosphate-binding site. (D) Other residues in the active site of PTP1B.

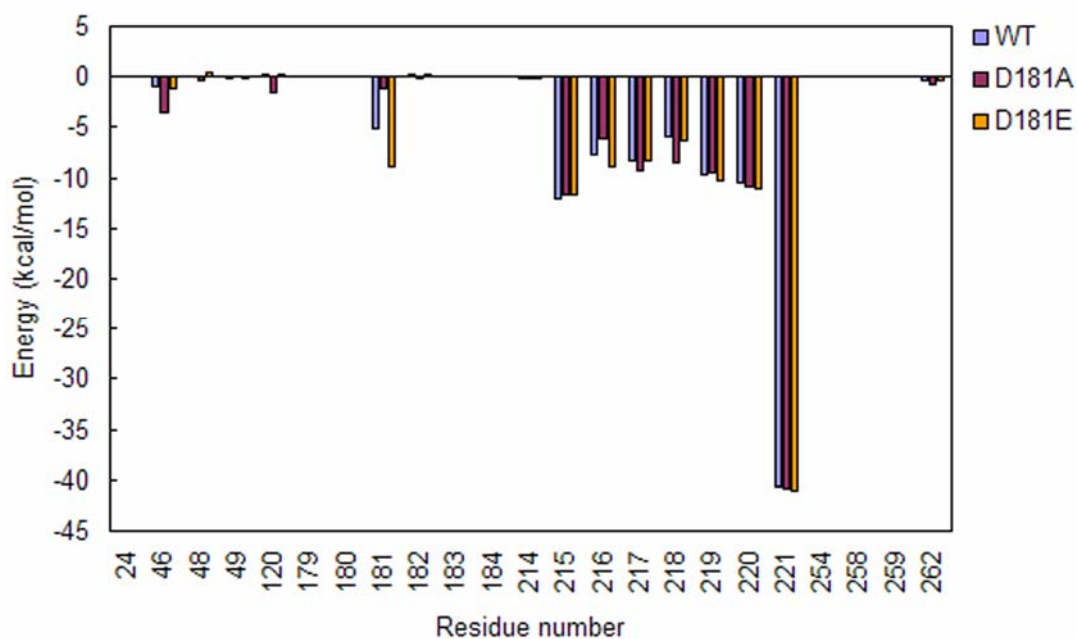


Figure S2 | The average of electrostatic interaction energies between substrate and residues in the active site of PTP1B.

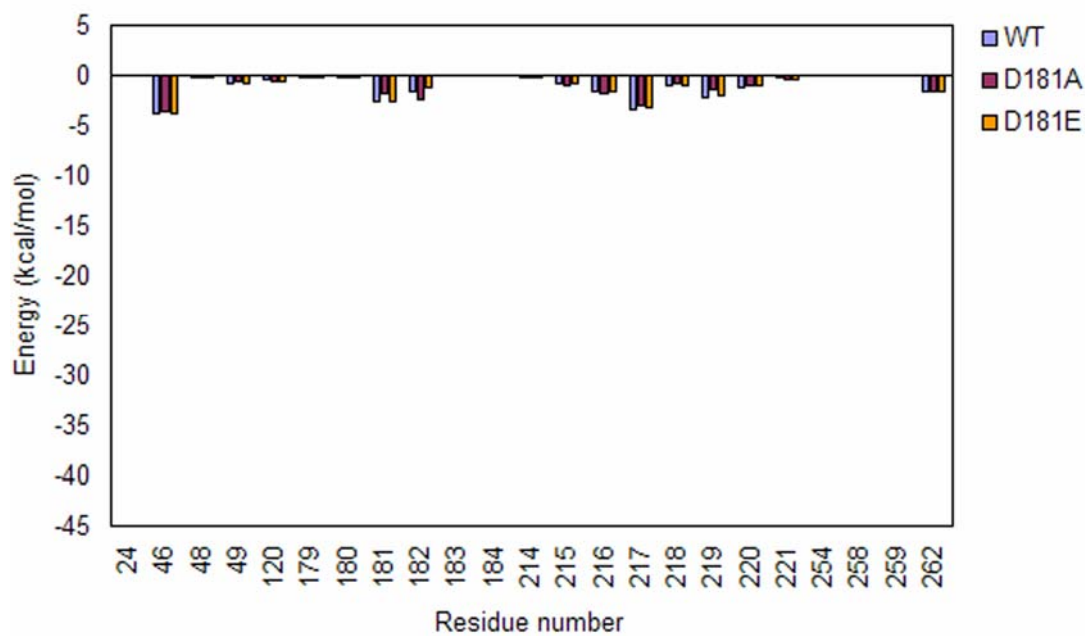


Figure S3 | The average of van der Waals interaction energies between substrate and residues in the active site of PTP1B.