**Acetylation of Lysine 182 Inhibits the DNA-binding Ability of *Mycobacterium tuberculosis* DosR to Regulate Gene Expression during Hypoxia**

**Running Title:** Lysine 182 Acetylation Inhibits DNA-binding of Mtb DosR

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**Fig. S1. Loading control for Western blotting analysis. (A) loading control for Fig. 4c.**The H37Ra wild-type (Ra) and *MRA\_1161* (*Rv1151c,* homolog in H37Ra)-deletion mutant (KO) were inoculated into 7H9-10% OADC-0.05% Tween 80 medium to mid-log phase (OD600 = 0.4–0.6), respectively. The cultures were added with NAM (5mM) or without, and incubated for 10 h, and collected by centrifugation. Cell extracts (20 μg per lane) was analyzed by SDS-PAGE and stained with Coomassie blue. M: marker; lane 1: Ra (without NAM); lane 2: KO (without NAM); lane 3: Ra (with 5mM NAM); lane 4: KO (with 5mM NAM). (**B**) **Loading control for Fig. 5a.** The wild-type (WT) and KO mutant bacteria were cultured in Dubos medium under aerobic or hypoxic conditions and cell extracts were prepared and equal amount (20 μg/lane) were analyzed by SDS-PAGE and stained with Coomassie blue. M: marker; lane 1: Ra (under aerobic conditions); lane 2: Ra (under hypoxic conditions); lane 3: KO (under aerobic conditions); lane 4: KO (under hypoxic conditions).