**Supporting Information table S2. Antibodies used in immunoblot analysis**

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| **Antibody** | **Catalogue no.** | **Company** |
| Anti-Ahnak1-C1 | Ref. [1] | ------ |
| Anti-Ahnak1 | E-5 | Santa Cruz |
| Anti-GAPDH | sc-32233 | Santa Cruz |
| Total OXPHOS Rodent WB Antibody Cocktail: contains 5 mouse monoclonal antibodies against:  - Complex I subunit NDUFB8 (NADH:Ubiquinone oxidoreductase subunit B8),  - Complex II subunit SDHB (succinate dehydrogenase complex Fe-S subunit B)  - Complex III subunit UQCRC2 (ubiquinol-cytochrome c reductase core protein 2)  - Complex IV subunit MT-CO1 (cytochrome c oxidase I)  - Complex V subunit ATP5a (ATP synthase F1 subunit alpha) | ab110413 | Abcam |
| Anti-Tim23 | 611222 | BD Bioscience |
| Anti-Tubulin | T9026 | Sigma |
| Secondary antibodies:  Anti-rabbit-IgG  Anti-mouse IgG  12nm colloidal Gold-affiniPure Goat anti-mouse IgG (H+L) | A1949-1VL  A9174  115-205-146 | Sigma  Sigma  Dianova |
|  |  |  |

1. Marg A, Haase H, Neumann T, Kouno M, Morano I. AHNAK1 and AHNAK2 are costameric proteins: AHNAK1 affects transverse skeletal muscle fiber stiffness. *Biochem Biophys Res Commun* 2010;**401**:143-8.