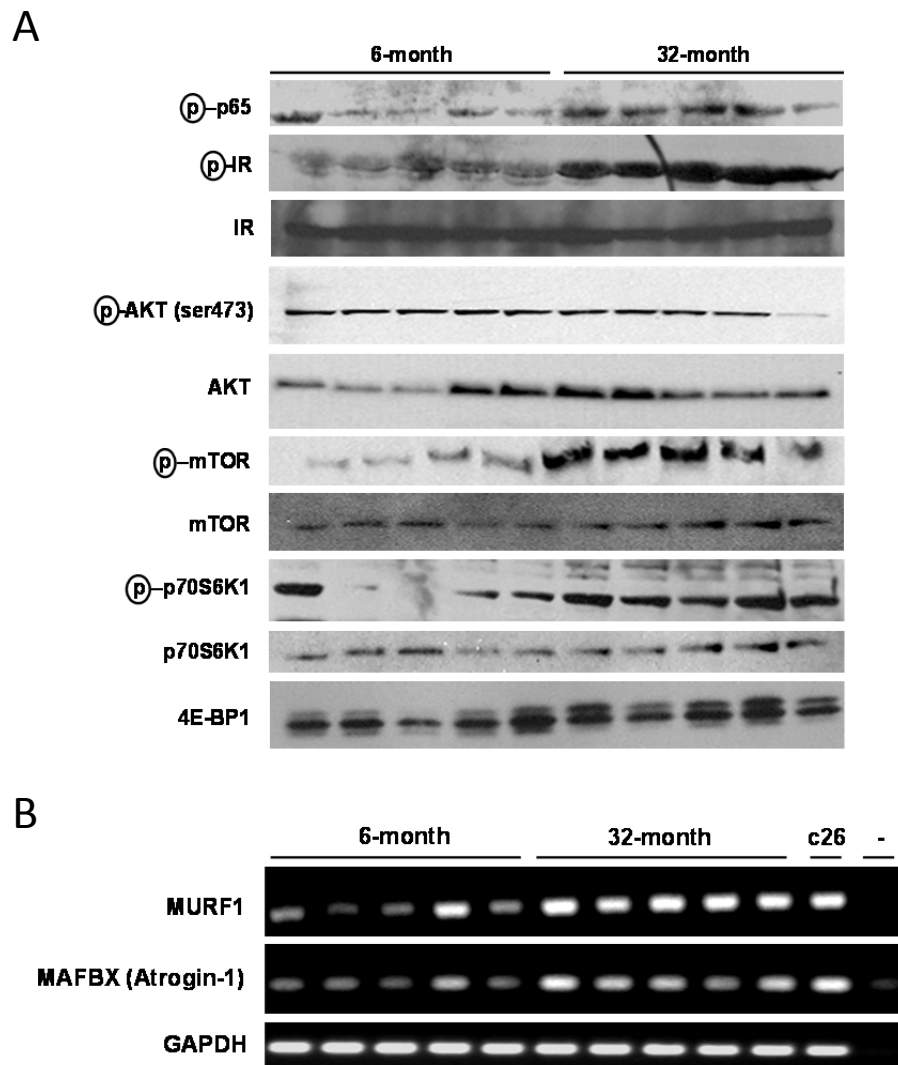




Online Resource 4 Molecular profiling of aged rat muscle. **a** Western blot analysis of gastrocnemius from 6- and 32-month-old FBN rats. **b** Semi-quantitative RT-PCR analysis of the protein degradation markers MURF1 and MAFBX (Atrogin-1) in the gastrocnemius muscles of 6- and 32-month-old rats. p65, transcription factor p65 or RELA or NF κ B3; IR, insulin receptor; AKT, AKT1 or v-akt murine thymoma viral oncogene homolog 1; mTOR, mechanistic target of rapamycin; p70S6K1, ribosomal protein S6 kinase polypeptide 1; 4E-BP1, eukaryotic translation initiation factor 4E binding protein 1; MURF1, muscle RING-finger protein-1; MAFBX1, muscle atrophy F-box protein; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; (p), phospho; C26, positive control for MURF1/MAFBX upregulation from muscle of murine cancer cachexia model; “-”, water control