Supplementary Figure 1: Histogram showing the distribution of ratios of isotopic peptide couples measured following COFRADIC isolation. In total 2,318 different peptide couples were identified and the distribution of their ratios (the log₂ of these ratios is shown) was determined followed robust statistics. Using a 98% confidence interval (limits of -1.102 and 1.021 are indicated on the histogram), 64 peptides (indicated by green bars) were found to have a ratio that significantly differed from an expected 1/1 ratio. Such peptides might hint to partial proteolytic degradation (negative ratio values) or more efficient protein extraction in the lysate of apoptotic cells (positive ratio values). The inset shows how swapped labelling with [¹⁸O] isotopes is used to validate results. The black spectrum is derived after labelling peptides from the apoptotic proteome digest with [¹⁶O] isotopes and those from the proteome digest of living cells with [¹⁸O] isotopes ('normal labelling'), while the green spectrum is from the swapped labelling. Processing of the heterogeneous nuclear ribonucleoprotein A0 at position 74 (identified peptide Ac-GNTVELKR, doubly charged precursor) in normal and swapped labelling conditions is shown in the bottom mass spectra of the inset.
increased in living cells

increased in apoptotic cells