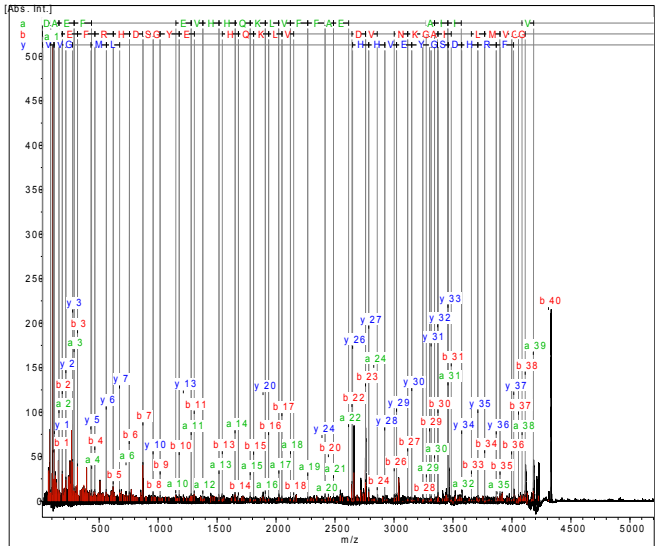
human Aβ 1-40

Precursor ion : m/z 4328.076

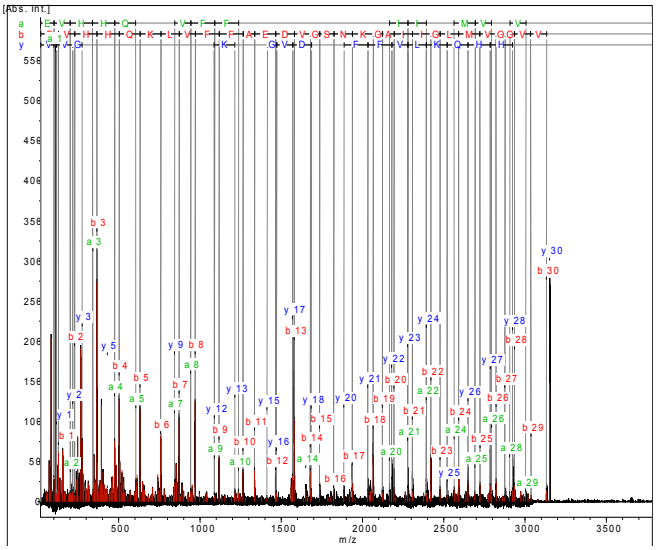
DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVV



human Aβ 11-40

Precursor ion : m/z 3150.657

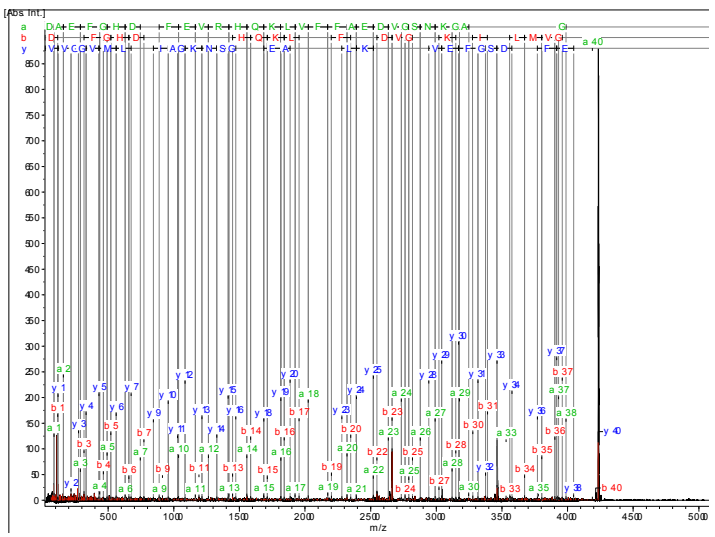
EVHHQKLVFFAEDVGSNKGAIIGLMVGGVV



mouse Aβ 1-40

Precursor ion : m/z 4232.696

DAEFGHDSGFEVRHQKLVFFAEDVGSNKGAIIGLMVGGVV



mouse Aβ 11-40

Precursor ion : m/z 3169.723

EVRHQKLVFFAEDVGSNKGAIIGLMVGGVV

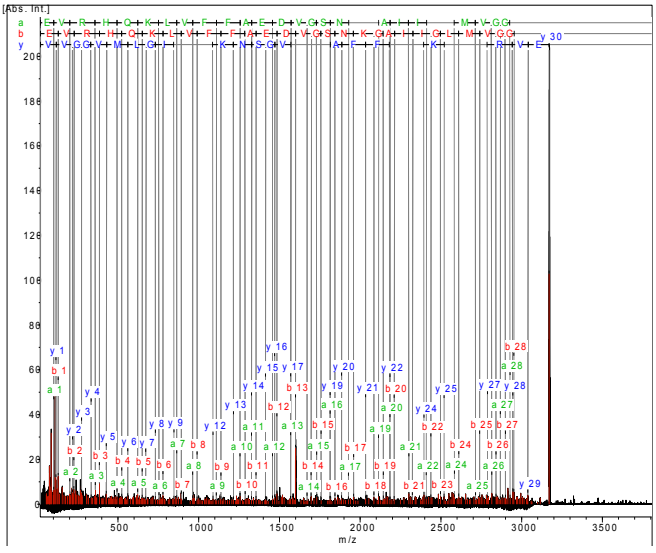


Figure S1. Confirmation of amino acid sequence of human and mouse Aβ$^{1-40}$ and Aβ$^{11-40}$ secreted from N2a cells expressed with human and mouse APP.

Signals of Aβ$^{1-40}$ and Aβ$^{11-40}$ derived from human APP expressed in N2a cells were subject to tandem MS (MS/MS) analysis as described in Hata *et al*. (*J. Biol. Chem.* [2009] 284, 36024-36033).

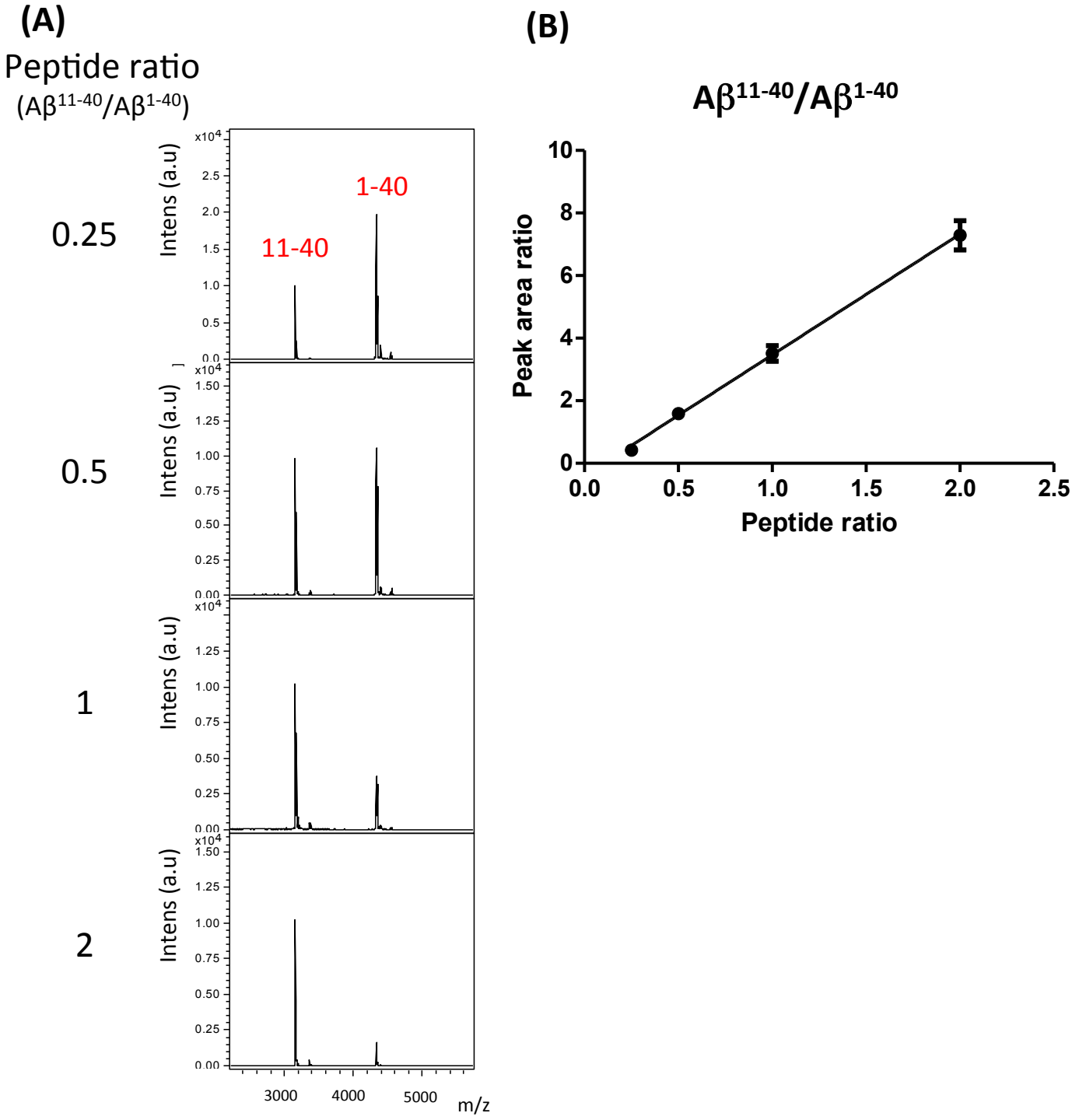


Figure S2. Quantitative accuracy of mass spectrometric analysis of Aβ$^{1-40}$ and Aβ$^{11-40}$.

Various ratios of Aβ$^{1-40}$ and Aβ$^{11-40}$ peptides mixture were subject to mass spectrometric analysis. Indicated ratios of Aβ$^{11-40}$ to Aβ$^{1-40}$ in amounts were analyzed (**A**), and the relationship between peak areas and amount ratios was shown as a quantitative accuracy of the ratio of Aβ$^{11-40}$/Aβ$^{1-40}$ (**B**). The peak area ratio and amount ratio of Aβ$^{11-40}$/ Aβ$^{1-40}$ increased proportionally (R^2= 0.9628, p<0.0001).