

### **Supplementary figure 1**

The same event related responses as in figure 4 but these represent the average event related responses (and standard errors) of 20 subsets of the data which were selected such that they had 2-back balanced history across all trial types.

### **Supplementary figure 2**

Same as figure 3 but showing in addition the event related responses for all conditions for all the regions of interest defined in the full brain analysis.