

## Supplementary Material

### Human Cerebrospinal Fluid Monoclonal LGI1 Autoantibodies Increase Neuronal Excitability

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**Supplementary Table 1. Monoclonal human CSF antibody repertoire in LGI1 encephalitis.** Sequence data, mutation analysis and reactivity of functional recombinant antibodies from antibody secreting cells (ASC), memory B cells (MBC) and non-memory B cells (NMBC) isolated from CSF of patients with LGI1 encephalitis. Germline V(D)J gene segments with highest sequence homology are listed for each immunoglobulin heavy chain (IGH) and either kappa (IGK) or lambda (IGL) light chain. For each immunoglobulin chain the amino acid sequence of the complementarity determining region 3 (CDR3) as well as the number of somatic hypermutations (SHM) in the V gene segment in comparison to the annotated germline sequence are shown. Reactivity indicates binding to recombinant LGI1 and interference with binding of the soluble extracellular domain of ADAM22 to recombinant LGI1 tested by ELISA. Cells in clusters with related heavy and light chain sequences are marked with §, & and \$. Cells in clusters with identical heavy and light chain sequences are marked with °, ', \* and #.

