



**Supplementary Figure 1. Representative images of Oligoclonal IgM Bands Detection (OCMB) by isoelectrofocusing.**

Representative immunoblots of serum (S) and cerebrospinal fluid (C) samples from two MS patients, the first one lacking (M-) and the second one showing (M+) OCMB restricted to cerebrospinal fluid. After focusing, proteins were transferred to an untreated membrane to detect total IgM bands (T), to a membrane coated with phosphatidylcholine (PC) and blocked with a mixture of peptides, and to a membrane coated with the same mixture of peptides (Negative control, NC). IgM bands were detected by incubating membranes with an anti-human IgM antibody labeled with biotin followed by incubation with alkaline phosphatase-labeled streptavidin. Anti-PC OCMB were detected in the PC-coated membrane and not in the negative control.