



Sub-cellular distribution of signaling molecules in B-lymphocytes from patients with SLE. (A) Confocal microscopy revealing reduction in the level and translocation into lipid raft microdomains of Lyn protein in SLE B-lymphocytes compared with healthy individuals (Normal). Translocation of Lyn (green) into lipid raft microdomains (red) is indicated by yellow patches resulting from merging the green and red colours. The abnormality in Lyn expression is associated with increased CD45 protein tyrosine phosphatase translocation into lipid raft signaling microdomains (B). Other molecules that partake in regulating Lyn, such as Csk (C), and c-Cbl (D) are, however, not affected. [Scale bar in red lines= 5 μ m]. Quantification of signalling molecule translocation shows an inverse relationship between Lyn level/translocation and CD45 (E and F).