



**Figure 7.** Immunofluorescence analysis of MOR-1 expression in the colon. MOR-1 (Red) expression was decreased in the colonic muscularis externae (ME) in OB compared to the sham samples (A). Quantification of MOR-1 fluorescence intensity using ImageJ revealed significant decrease in MOR-1 expression in ME of OB colon compared to Sham (B).  $*P < 0.05$  vs sham (unpaired  $t$  test). Double staining of sham colon sections with MOR-1 (red) and enteric neuronal marker Hu (green) reveals expression of MOR-1 not only in the myenteric plexus neurons, but also in nerve endings in the muscularis externae (arrows) (C). Bars 70  $\mu\text{m}$ . LM, longitudinal muscle; CM, circular muscle; SM, submucosa; MP, myenteric plexus; OB, obstruction.