



Suppl. Fig.1. Effect of the H1-receptor antagonist mepyramine on histamine-induced ionic secretion in wild-type mouse colon mucosa. The traces show a continuous recording of transepithelial potential (V_{te}) as function of time obtained in Ussing chamber experiments of mouse distal colon. The voltage deflections are caused by current pulse injection. Addition of 100 μ M isobutylmethylxanthine (IBMX) plus 1 μ M forskolin induces a negative change in V_{te} that was fully reversed by 10 μ M chromanol 293B. Addition of 100 μ M mepyramine gave a transient negative change in V_{te} , after which there was no effect of basolateral addition of 150 μ M histamine. The specificity of mepyramine effect was tested by addition of 100 μ M carbachol which gave the expected anion secretory response. Apical amiloride at 10 μ M was used to inhibit ENaC-mediated sodium currents. Apical and bl indicate additions to the mucosal and serosal compartment, respectively. Tissue resistances were respectively 86 and 64 $\Omega \cdot \text{cm}^2$ at the beginning and end of the experiment. The effect of mepyramine abolishing all effect of histamine is typical of 6 experiments.