

# Supporting Information

Musset *et al.* 10.1073/pnas.0800886105

Table S1. Anti-IgE responses (with or without bath Ca<sup>2+</sup>)

Parameter	With Ca <sup>2+</sup>	Ca <sup>2+</sup> -free	(Ca <sup>2+</sup> vs. Ca <sup>2+</sup> -free)
$I_H$ (anti-IgE/control)	$3.70 \pm 0.55$ (12)	$3.10 \pm 0.31$ (14)	$P = 0.35$
$g_{H,max}$ (anti-IgE/control)	$2.23 \pm 0.22$ (14)	$2.37 \pm 0.24$ (16)	$P = 0.66$
$\tau_{act}$ (control/anti-IgE)	$2.33 \pm 0.33$ (14)	$2.23 \pm 0.23$ (15)	$P = 0.81$
$\tau_{tail}$ (anti-IgE/control)	$1.15 \pm 0.07$ (17)	$1.19 \pm 0.05$ (16)	$P = 0.93$
$V_{threshold}$ (anti-IgE – control)	$-11.1 \pm 1.6$ (18)	$-10.2 \pm 1.0$ (15)	$P = 0.57$

Here,  $I_H$  is the relative amplitude of leak-subtracted proton current measured at the end of 4-s test pulses to +40 or +60 mV, or extrapolated from the fit to a single exponential. Other parameters are described in Table 1.

**Table S2. PMA responses (with or without bath Ca<sup>2+</sup>)**

Parameter	With Ca <sup>2+</sup>	Ca <sup>2+</sup> -free	(Ca <sup>2+</sup> vs. Ca <sup>2+</sup> -free)
<i>I<sub>H</sub></i> (PMA/control)	5.37 ± 0.63 (16)	4.36 ± 0.81 (16)	<i>P</i> = 0.34
<i>g<sub>H,max</sub></i> (PMA/control)	2.99 ± 0.31 (23)	2.68 ± 0.24 (17)	<i>P</i> = 0.43
<i>τ<sub>act</sub></i> (control/PMA)	4.62 ± 0.76 (28)	5.52 ± 1.03 (24)	<i>P</i> = 0.48
<i>τ<sub>tail</sub></i> (PMA/control)	1.26 ± 0.09 (40)	1.43 ± 0.08 (24)	<i>P</i> = 0.17
<i>V<sub>threshold</sub></i> (PMA – control)	–18.5 ± 1.4 (37)	–19.8 ± 1.3 (24)	<i>P</i> = 0.51