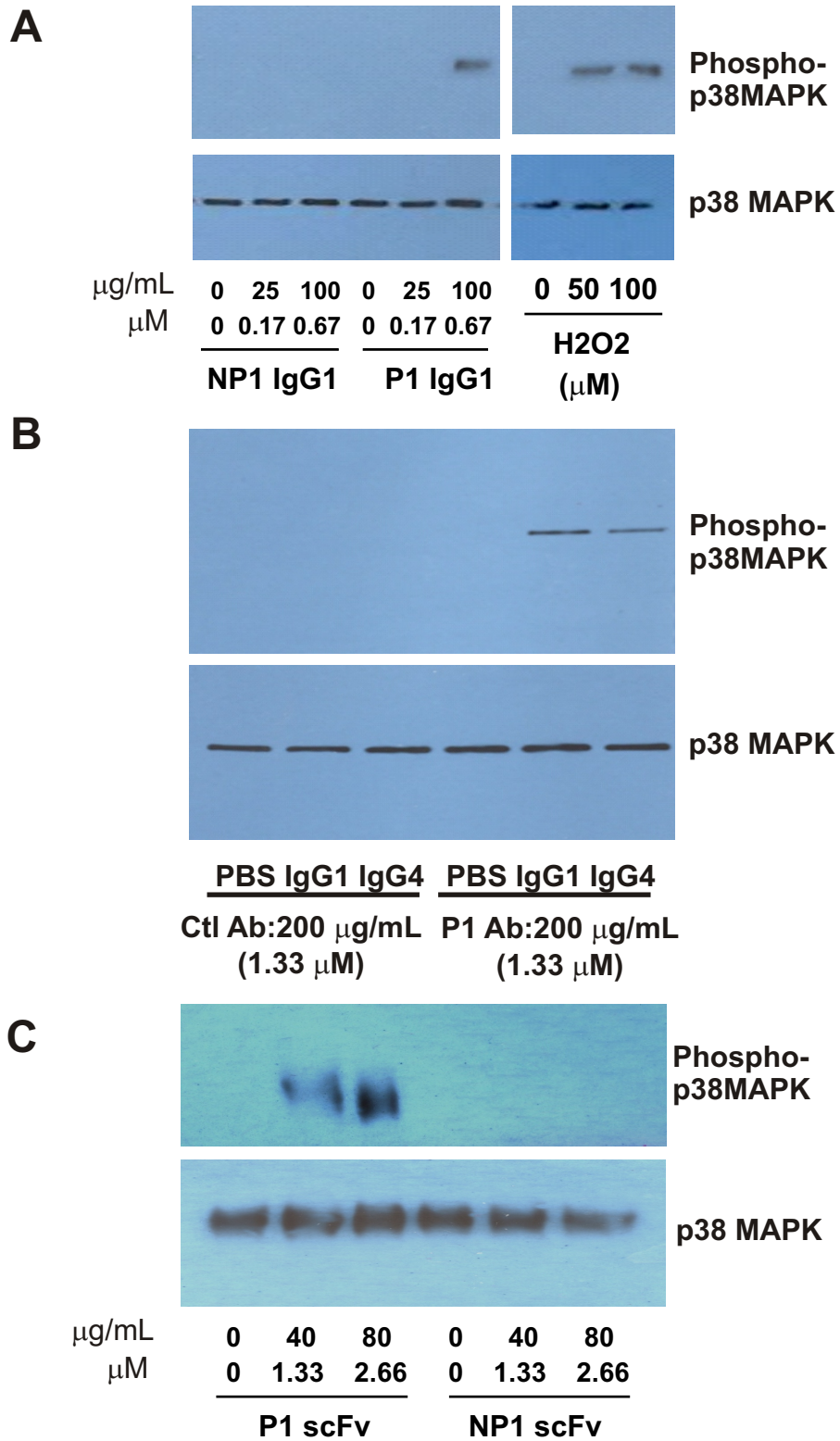
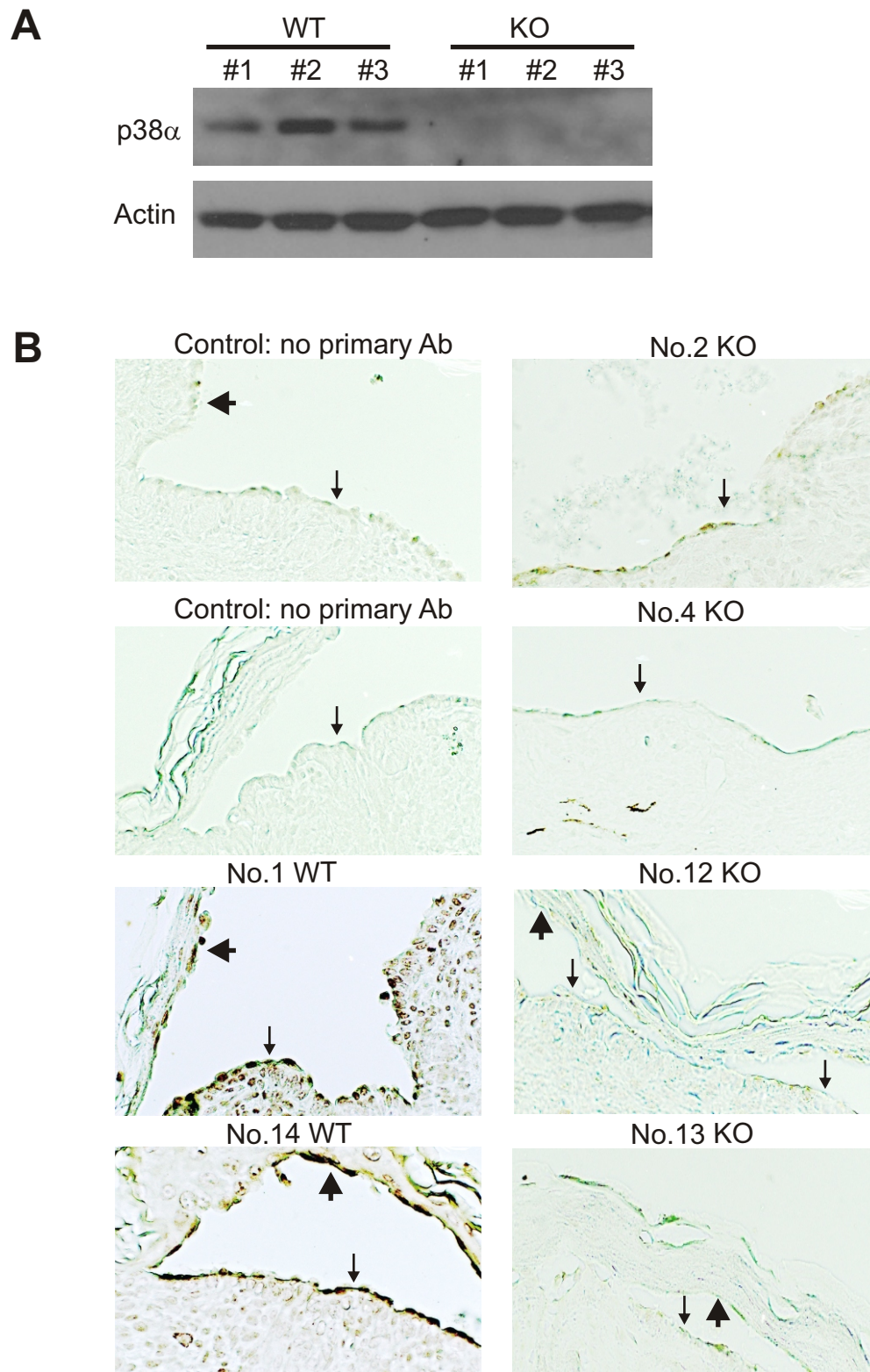


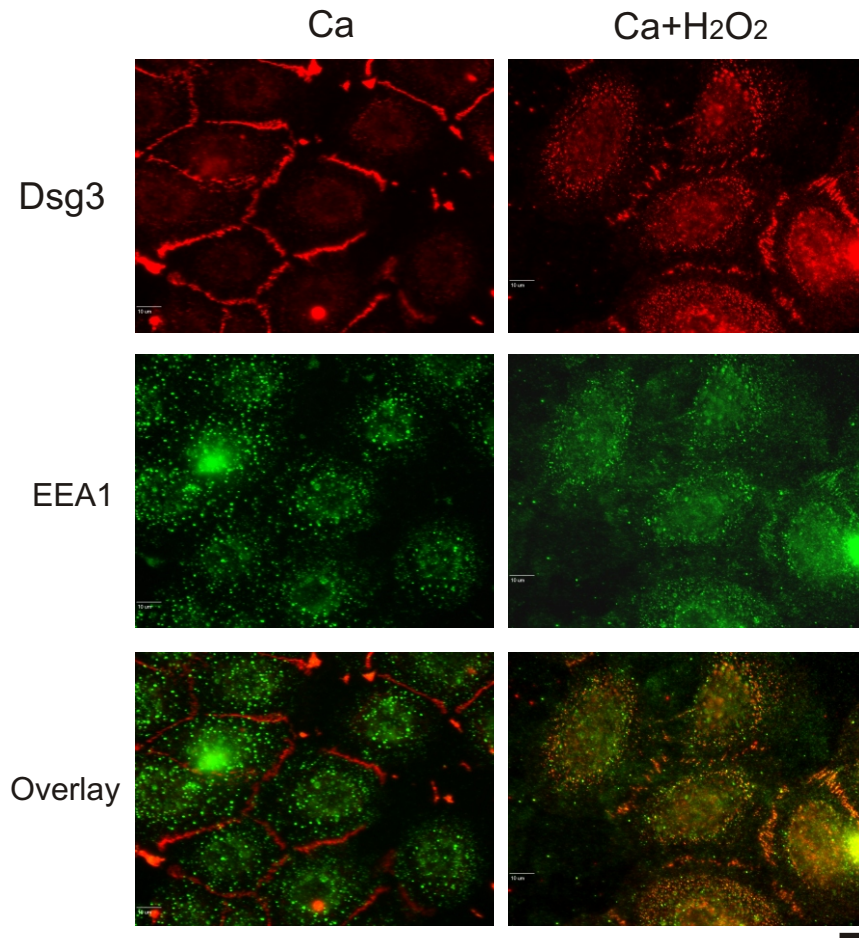
**Figure S1.**



**Figure S2.**



**Figure S3.**



**Figure S4.**

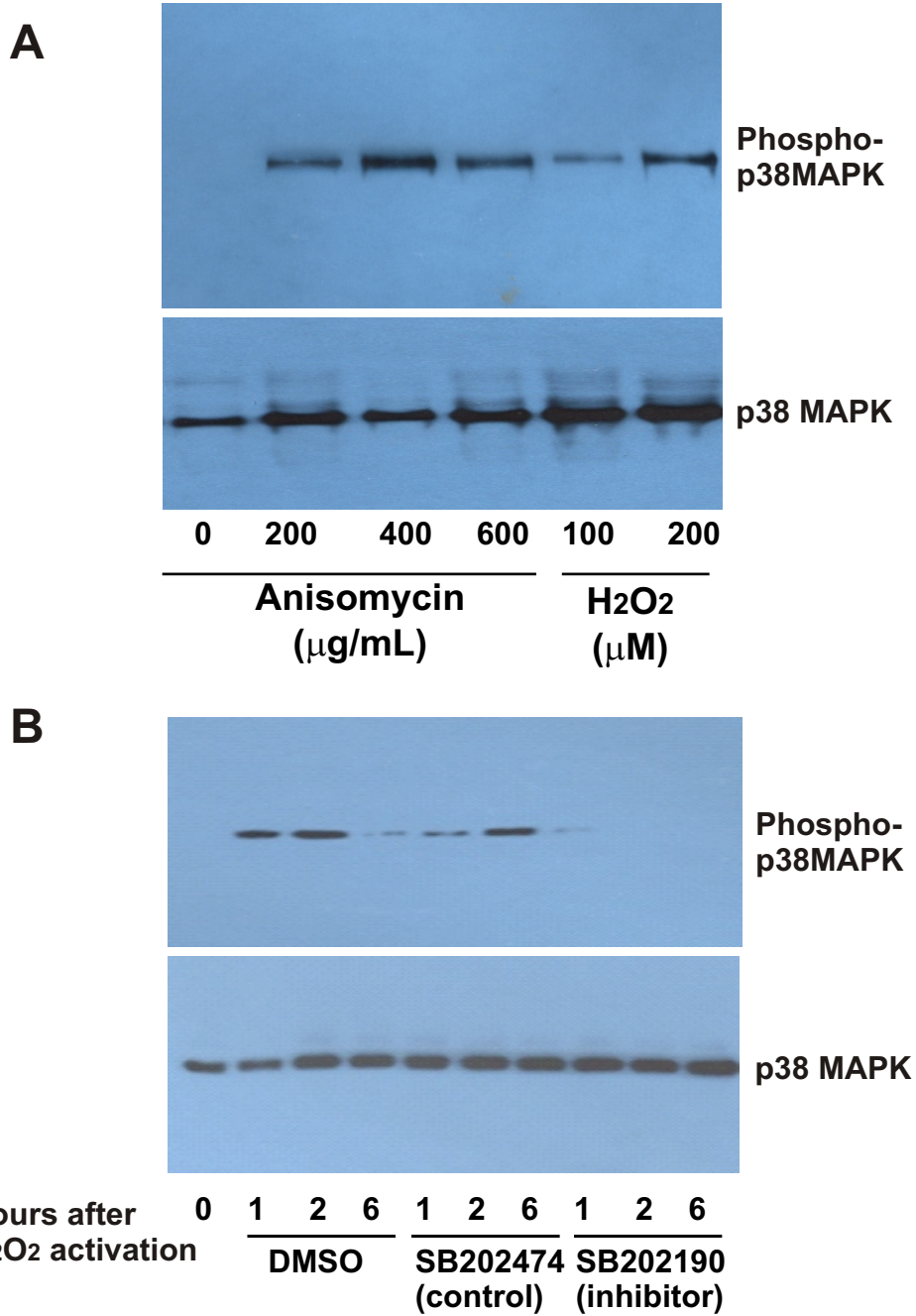


Table S1.

PV mAb		Dsg1	Dsg3	Dsc3	E-cad
(D31)2/29	P1	+	+	-	-
(D3)3c/9	P2	+/-	+ (1-88)	-	-
(D31)2/28	P3	+	+	-	-
(D31)12b/6	NP1	+	+	-	-
(D3)1d/2c)	NP2	-	+ (1-161)	-	-
AK23		-	+	ND	ND

Table S2.

Mouse	Phenotype	Injection	Dose ( $\mu\text{g}$ )	Gross blister	Histologic blister	serum Dsg3 ELISA value (U/mL)
17	KO	NP2	40	-	-	163
18	KO	NP2	40	-	-	183
15	WT	NP2	40	-	-	178
19	WT	NP2	40	-	-	166
20	WT	NP2	40	-	-	158
2	KO	P1	40	+	+++	32
4	KO	P1	40	+	+++	32
10	KO	P1	40	+	+++	32
1	WT	P1	40	+	+++	17
3	WT	P1	40	+	+++	33
9	WT	P1	40	+	+++	31
11	WT	P1	40	+	++	23
21	WT	P1	40	+	+++	34
12	KO	P1	20	+	+++	19
13	KO	P1	20	+	++	19
30	KO	P1	20	+	+++	22
5	WT	P1	20	+	+++	24
6	WT	P1	20	-	-	24
8	WT	P1	20	+	+++	19
14	WT	P1	20	+	++	21
29	WT	P1	20	+	+	15
22	KO	P1	10	+	++	10
23	KO	P1	10	-	+	10
24	KO	P1	10	+	++	6
28	KO	P1	10	+	+++	10
25	WT	P1	10	-	++	8
26	WT	P1	10	-	+	8
27	WT	P1	10	-	+	9