SUPPLEMENTARY DATA

Table 1: Primers used for Real Time PCR

CDX2	sense	GCCTGTCACCAGAGCTTCTC
	antisense	AGACCAACAACCCAAACAGC
β actin	sense	ACTGGAACGGTGAAGGTGAC
	antisense	GTGGACTTGGGAGAGGACTG
Rps 11	sense	GCCGAGACTATCTGCACTAC
	antisense	ATGTCCAGCCTCAGAACTTC
α tubulin	sense	GCCTGGACCACAAGTTTGAC
	antisense	TGAAATTCTGGGAGCATGAC

Table 2: Correlation between *in vitro* and *ex vivo* findings

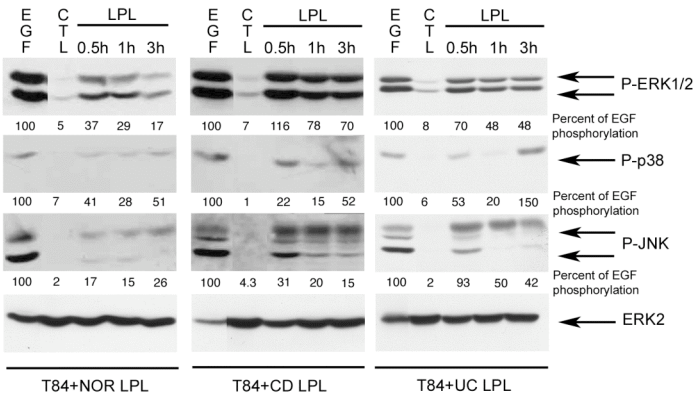
	IEC lines + LPL *in vitro*							*ex vivo* studies (crypt staining)					
	IAP	Akt	ERK 1/2	p38	JNK	CDX2		IAP	Akt	ERK 1/2	p38	JNK	CDX2
Nor	+	+	+	+	+	+		-	-	-	-	-	-
Inact CD	+++	+	++	++	++	++		++	++	-	+	+	+
Act CD	ND	ND	ND	ND	ND	ND		+++	+++	+	+++	+	+
Inact UC	ND	+	++	+	++	ND		-	++	++	-	+	+
Act UC	ND	ND	ND	ND	ND	ND		-	+	++	-	+	+

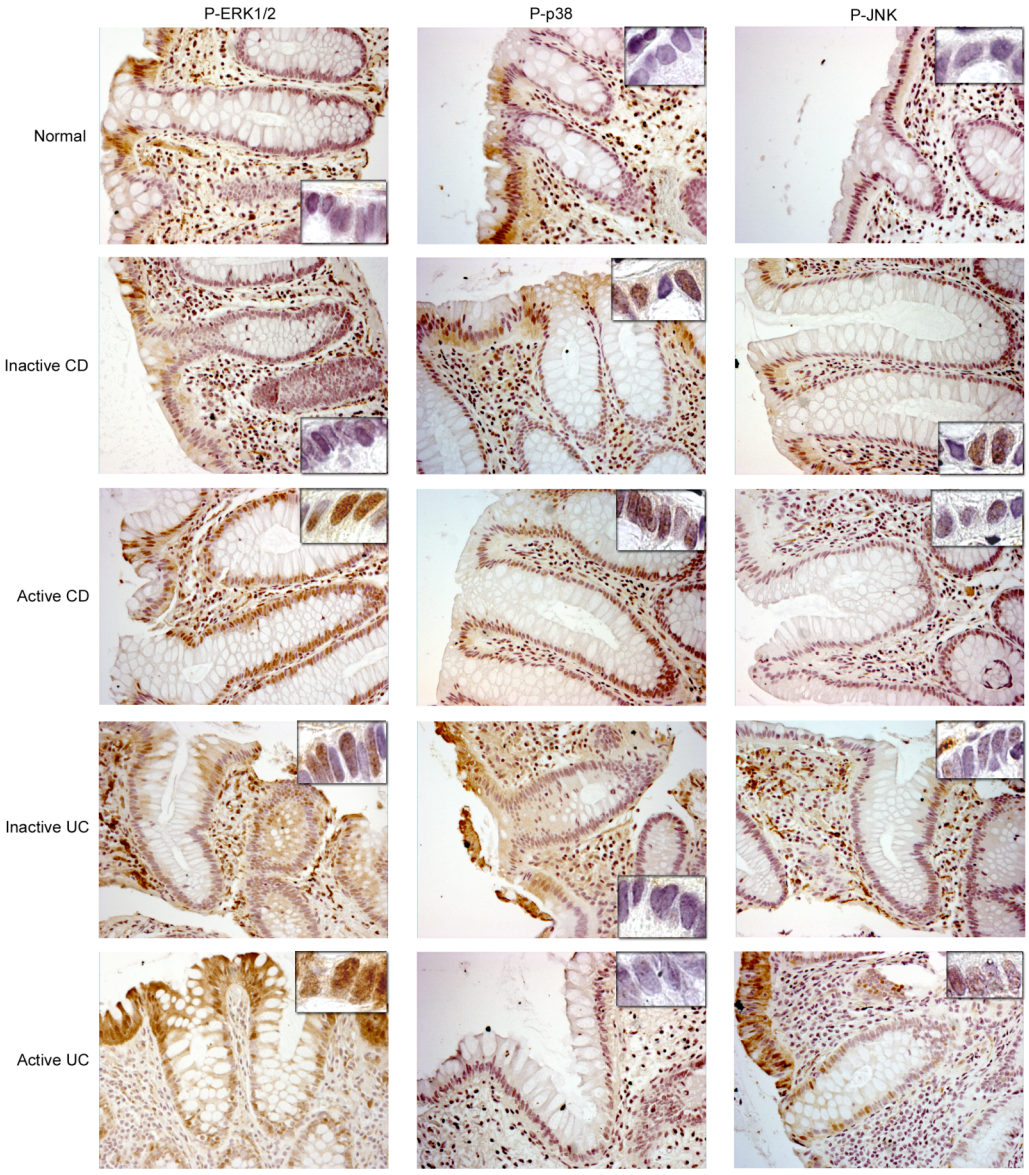
ND = Not Determined.

Supplementary figure legends

Figure 1: MAPK pathway activation in T84 cells co-cultured with LPL. Immunoblotting for P-ERK1/2, P-p38 MAPK, P-JNK, and ERK2 in lysates obtained from T84 cells co-cultured with freshly isolated Nor, CD or UC LPL for 30 min to 3 hours. The CTL lane contains T84 alone. EGF (10 nM; 15min) was used as a positive control. These data are representative of 3 experiments. The percentage of MAPK activity related to the activity induced by EGF was quantified after densitometric analysis.

Figure 2: Nor, inactive and active CD, and inactive and active UC colonic tissue sections were immunostained using anti-phospho ERK1/2, anti-phospho p38 MAPK, and anti-phospho JNK antibodies. The slides were counter-stained with Mayer's Hematoxylin solution, and examined with a Zeiss Axioskop Light Microscope at 20X magnification. The insets represent 100X magnification of the crypt epithelial cells to document nuclear localization. These data are representative of 4 experiments.


EGF
CTL
LPL
0.5h
1h
3h
P-ERK1/2
Percent of EGF phosphorylation
100 5 37 29 17
100 7 116 78 70
100 8 70 48 48
P-p38
Percent of EGF phosphorylation
100 7 41 28 51
100 1 22 15 52
100 6 53 20 150
P-JNK
Percent of EGF phosphorylation
100 2 17 15 26
100 4.3 31 20 15
100 2 93 50 42
ERK2
T84+NOR LPL
T84+CD LPL
T84+UC LPL


P-ERK1/2
P-p38
P-JNK
Normal
Inactive CD
Active CD
Inactive UC
Active UC