

Fig. S1

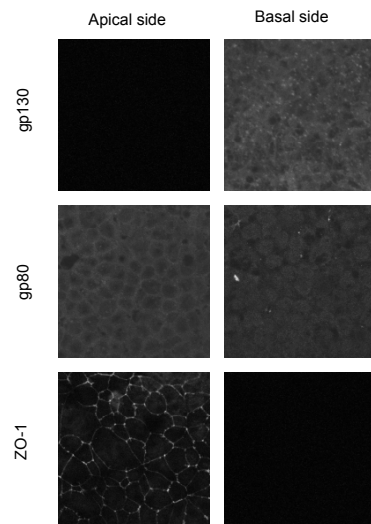


Fig. S2

SUPPLEMENTAL FIGURE LEGENDS

***Fig. S1* IL-6 increases TJ permeability and claudin-2 expression in T84 cell monolayers.** (A) TER was measured across T84 cell monolayers incubated with varying concentrations of IL-6 (0~30 ng/mL) for 48 hr. (B) Whole cell extracts of T84 cell monolayers incubated with varying concentrations of IL-6 (0~30 ng/mL) for 48 hr were immunoblotted for claudin-2 and β -actin. * $P < 0.05$ relative to the control value. Values represent the mean \pm SEM (n = 4).

***Fig. S2* Localization of gp130 and gp80 differ in Caco-2 cell monolayers.** Caco-2 cells fixed with methanol were immunolabeled for gp130, gp80, and ZO-1 and the apical and basal images of cell monolayers were collected by confocal microscopy.

***Fig. S3.* Sequence analysis of the 5'-flanking region of the human claudin-2 gene.** Potential binding sites are underlined.

Table S1. Primers used in quantitative RT-PCR

Target gene	Forward	Reverse
hClaudin-2	5'-CTCCCTGGCCTGCATTATCTC-3'	5'-ACCTGCTACCGCCACTCTGT-3'
hCdx-1	5'-TCGGACCAAGGACAAGTACC-3'	5'-GATCTTCACCTGCCGTTTACAG-3'
hCdx-2	5'-CAGTCGCTACATCACCATCC-3'	5'-TTTCCTCTCCTTTGCTCTGC-3'
h β -actin	5'-GCCGAGGACTTTGATTGCA-3'	5'-CTTCCTGTAAACAACGCATCTCA-3'

Table S2. Primers used to delete transcriptional factor binding sites in site-directed mutagenesis of claudin-2 promoter

Deletion target	Forward	Reverse
Cdx-A	5'-AAGATAACAAAGGTCAAAGGC-3'	5'-AACACATGAGAAAGGAAAAAAAAAAC-3'
Cdx-B	5'-GTTTCTCATAAGCTTCTGGTC-3'	5'-CGCTGGATGCCTTTTGACC-3'
Cdx-C/D	5'-TCTTCTAGATGCCTTCTTGAG-3'	5'-CAGATTAAATATTGACCAGAAGC-3'
STAT	5'-AGCAGCCACCTGTCTGGCTCCTG-3'	5'-GGTGATGATGGCAGTGGTGGTTG-3'
NFκB	5'-GGGCCCCCTCTCAGTCCTGG-3'	5'-TGGGCCATCTGTTAGGGGGG-3'