Supplementary Figure Legends:

Figure S1: H&E stained intestine tissue sections from *Igf2bp1*$^{IEC\text{-}Ind\ KO}$ and control mice.

A. H&E stained colon sections of *Igf2bp1*$^{IEC\text{-}Ind\ KO}$ had shown loss of crypts with increased cellularity in lamina propria having mild to medium patchy to diffuse neutrophilic, lymphocytic infiltration and abscess formation, when compared to control mice.
B. H&E stained small intestine sections of *Igf2bp1*$^{IEC\text{-}Ind\ KO}$ showing mild active enteritis when compared to control mice section.
C. H&E stained colon sections from chronic DSS treated *Igf2bp1*$^{IEC\text{-}Ind\ KO}$ mice showing increased marked disruption of colonic mucosa along with crypt abscesses, loss of colonic surface epithelium and crypts, and diffuse infiltration of inflammatory cells, when compared to control mice colon sections in the left panel.

Figure S2-A, B and C: mRNA expression of Myc, β-TrCP and Fbxw11 were analyzed from the IECs isolated from control and *Igf2bp1*$^{IEC\text{-}Ind\ KO}$ mice. The data are means ± SD (n=5)

Figure S3-A: mRNA degradation assay in Caco-2 cells transduced with doxycycline-inducible scramble or Igf2bp1-specific shRNA. Cells were grown for 4 days with doxycycline treatment to induce knockdown of IGF2BP1. Actinomycin D was added at time 0 and cell samples were collected at 0, 2, 4 and 8 hrs time point from the same plate. *Claudin2* mRNA levels were evaluated via RT-qPCR. **B:** The mRNA degradation assay in RKO cells transduced with control or IGF2BP1 overexpression (Igf2bp1-OE) constructs to show the stabilization of *Claudin2* mRNA upon IGF2BP1 overexpression. Actinomycin D was treated at 0 hrs. and cells were collected at 0, 2, 4, 8 hrs from the same plate. Total RNA was isolated followed by RT-qPCR to analyze the *Claudin2 mRNA* levels. The data are means ± S.D. of two independent experimental repeats.

Fig. 1S

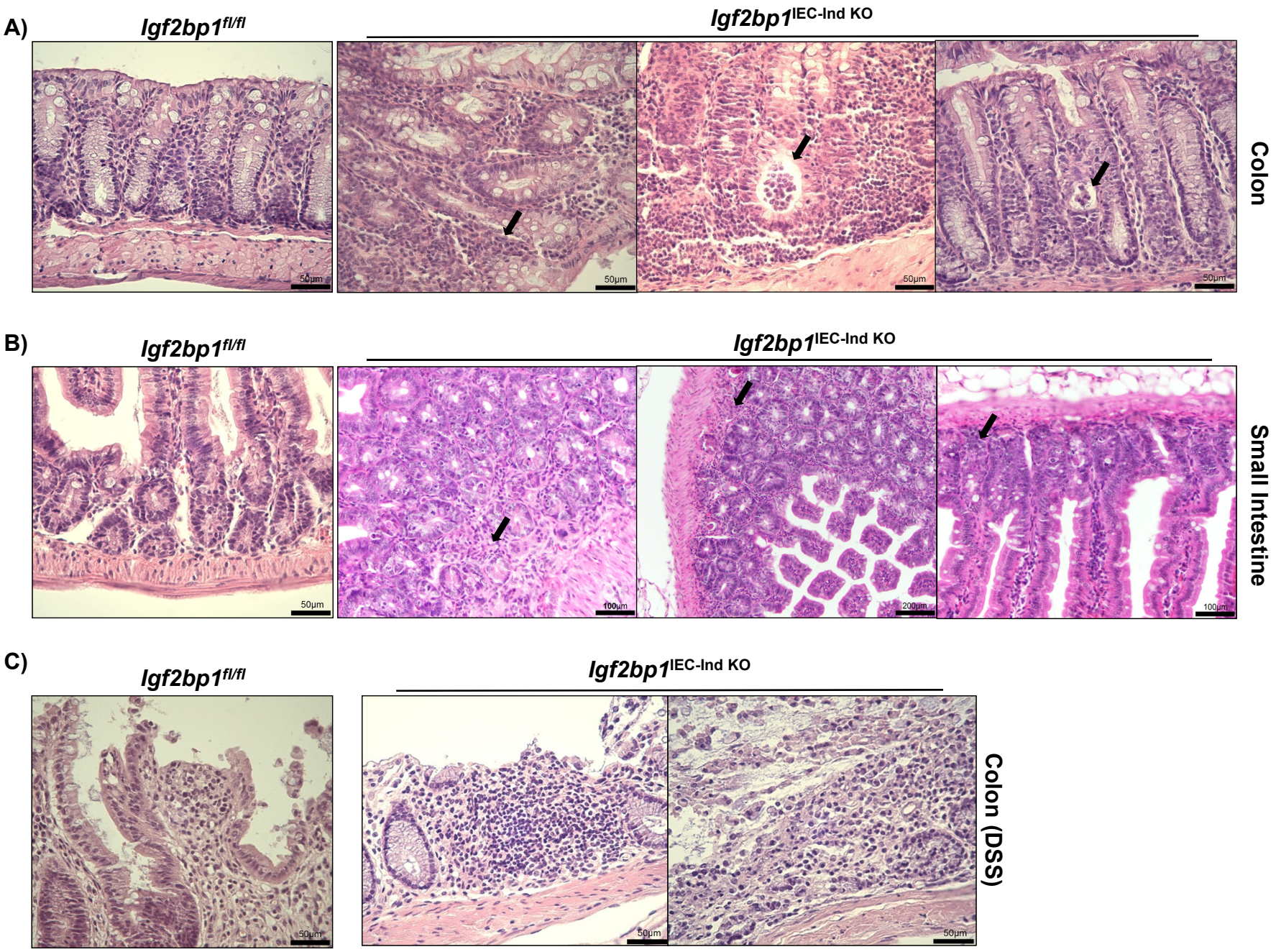

A)
Igf2bp1fl/fl
Igf2bp1IEC-Ind KO
Colon
B)
Igf2bp1fl/fl
Igf2bp1IEC-Ind KO
Small Intestine
C)
Igf2bp1fl/fl
Igf2bp1IEC-Ind KO
Colon (DSS)

Fig. 2S

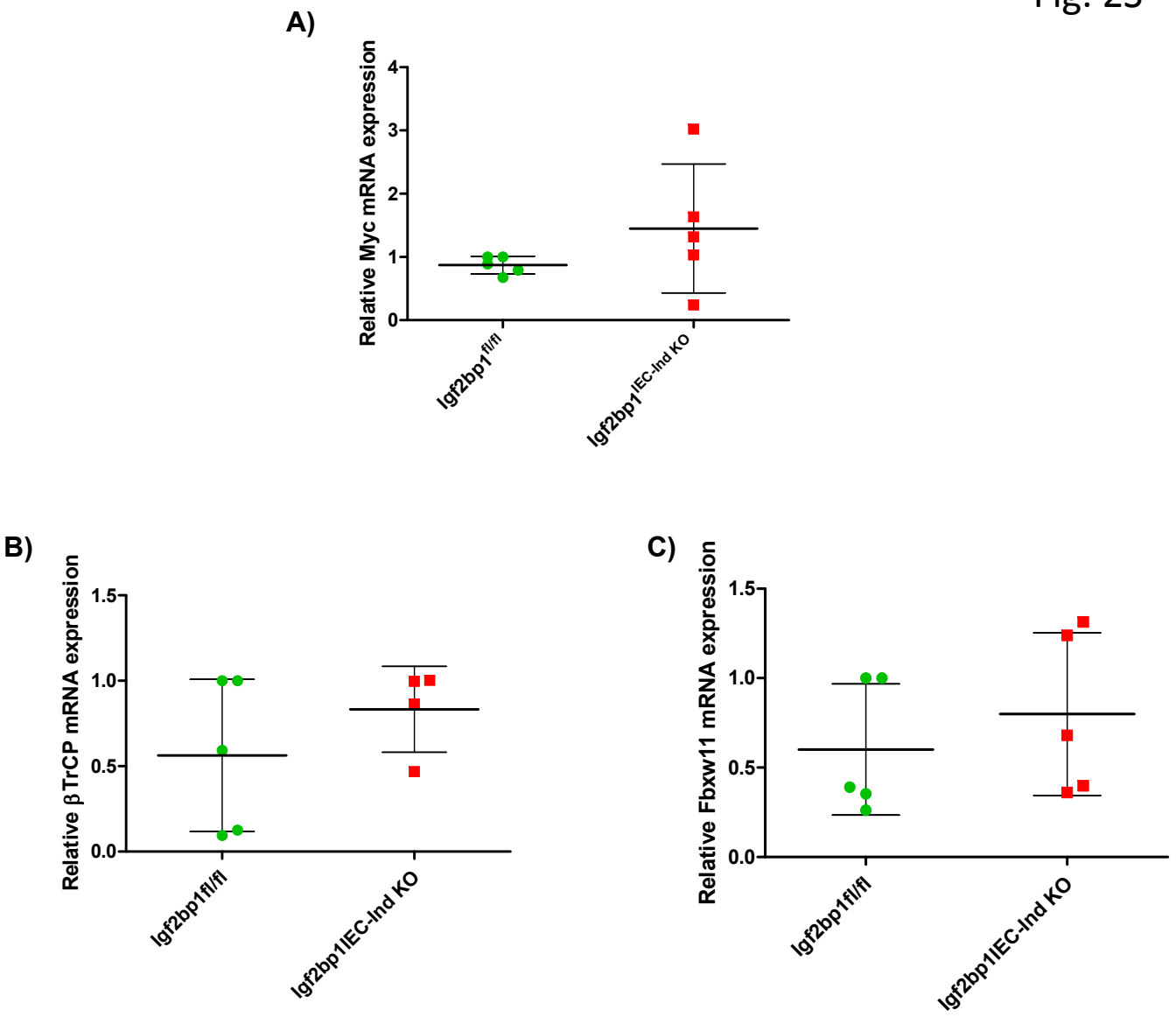
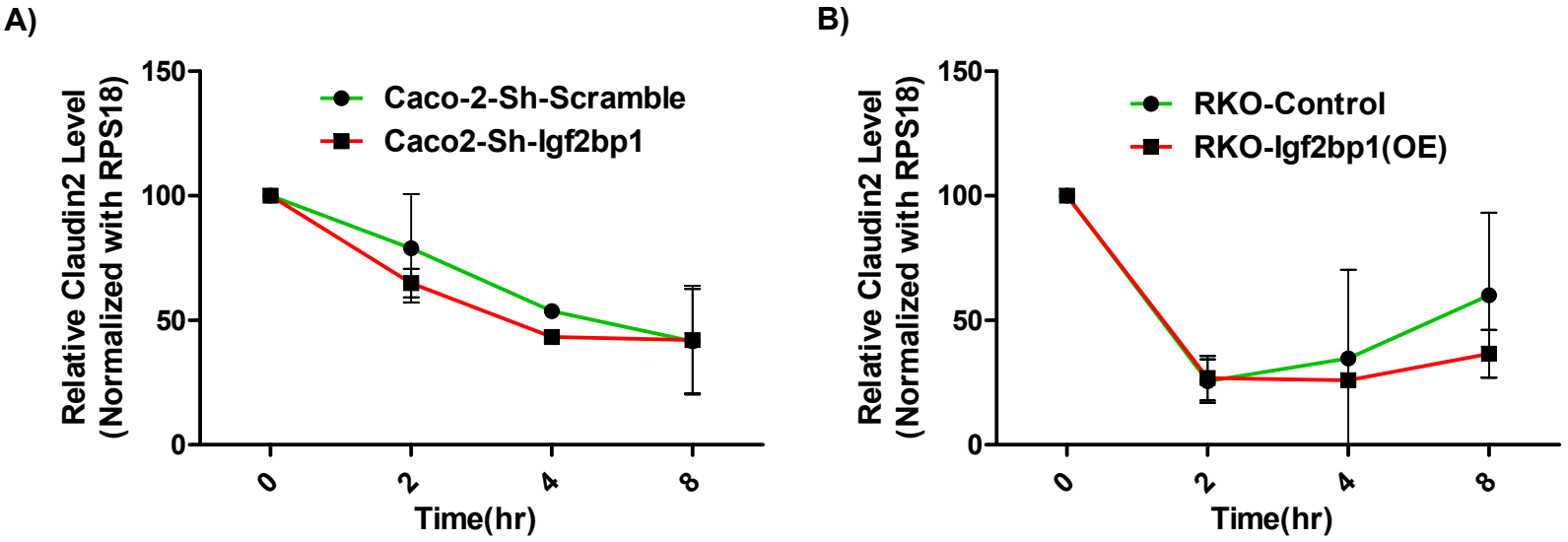

A)
Relative Myc mRNA expression
0
1
2
3
4
Igf2bp1fl/fl
Igf2bp1IEC-Ind KO
B)
Relative βTrCP mRNA expression
0.0
0.5
1.0
1.5
Igf2bp1fl/fl
Igf2bp1IEC-Ind KO
C)
Relative Fbxw11 mRNA expression
0.0
0.5
1.0
1.5
Igf2bp1fl/fl
Igf2bp1IEC-Ind KO

Fig. 3S


A)
Relative Claudin2 Level
(Normalized with RPS18)
150
100
50
0
Caco-2-Sh-Scramble
Caco2-Sh-Igf2bp1
0
2
4
8
Time(hr)
B)
Relative Claudin2 Level
(Normalized with RPS18)
150
100
50
0
RKO-Control
RKO-Igf2bp1(OE)
0
2
4
8
Time(hr)