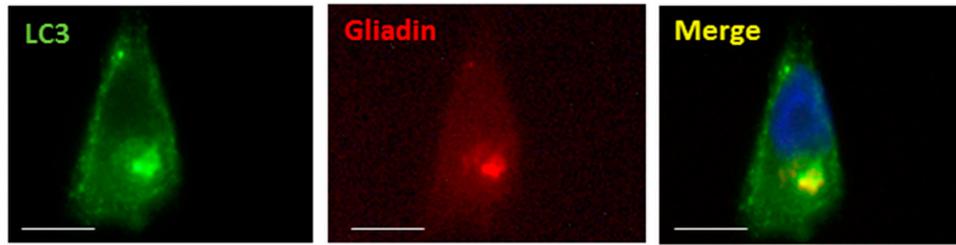
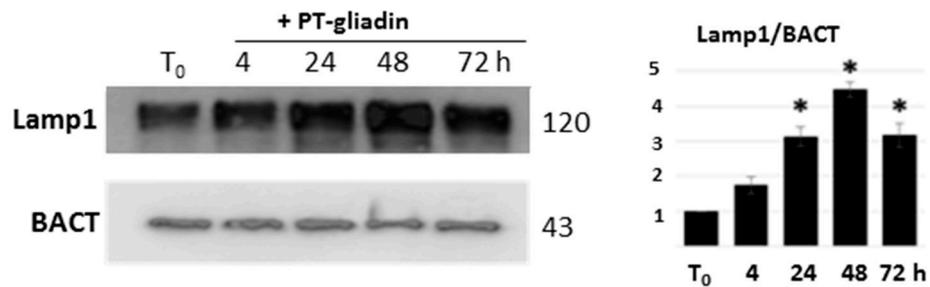
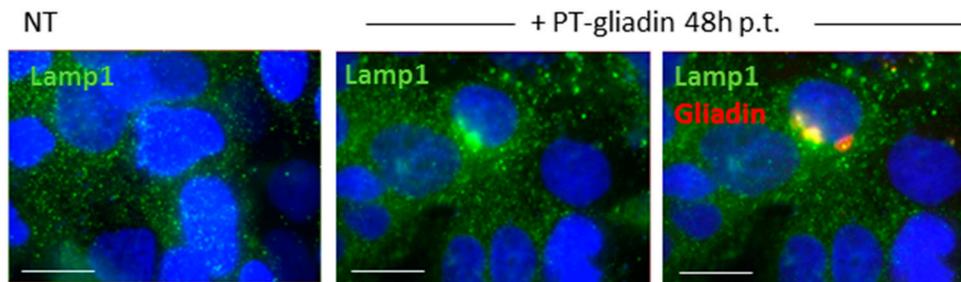


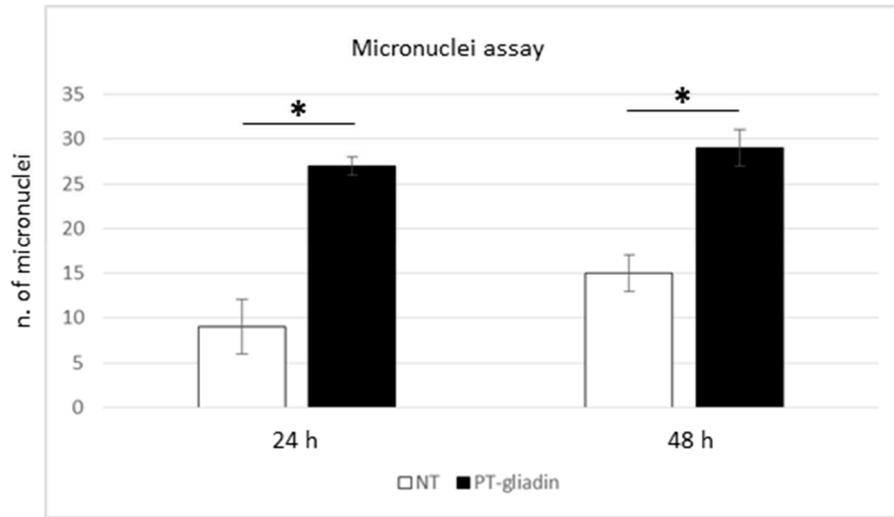
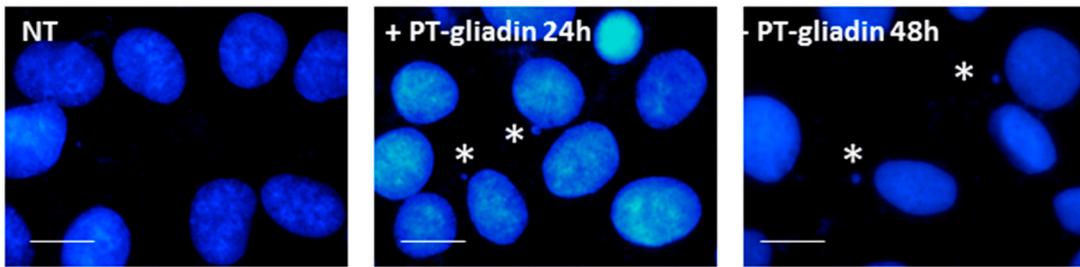
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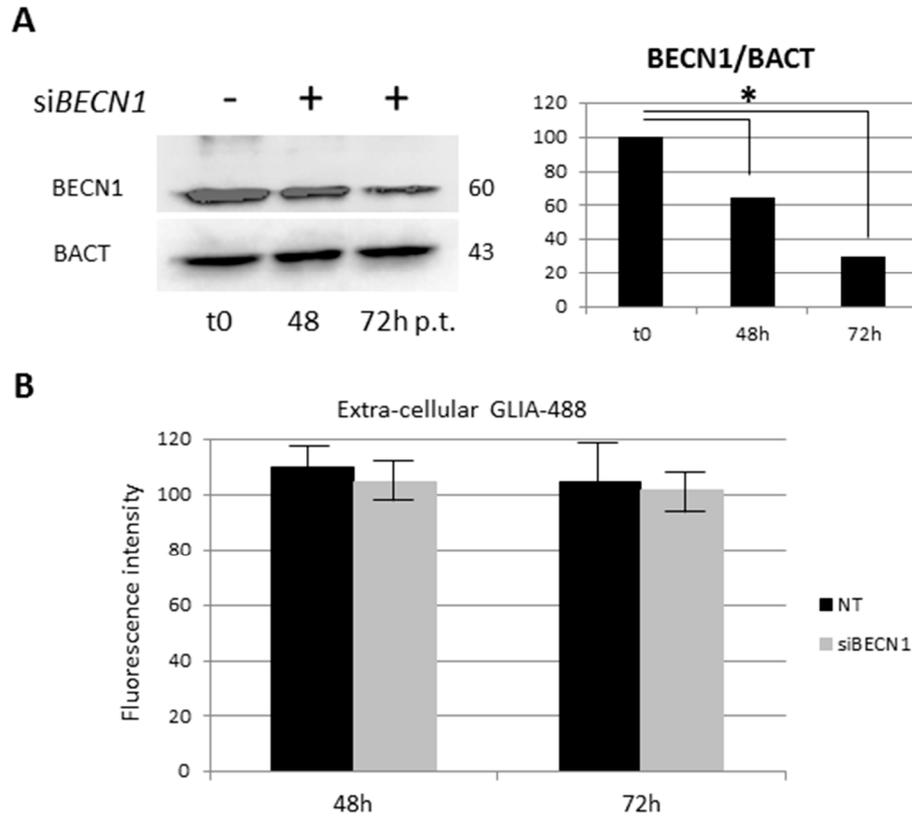
B



Supplementary Figure 1 LC3 and Lamp1 expression in Caco-2 cells after PT-gliadin administration. (A,B) Immunofluorescence analysis of LC3 or Lamp1 (green) and gliadin (red) expression, visualized using an inverted microscope Eclipse Nikon TS100, 100X oil immersion Plan Fluor objective. Scale bars=10 μ m. (C) Immunoblotting expression and densitometric analysis of Lamp1 normalized with BACT housekeeping values. Asterisks indicate $p < 0.05$, Anova One-way, compared to T₀ untreated sample.



Supplementary Figure 2. Micronuclei formation after PT-gliadin administration in Caco-2 cells. Fluorescent DAPI staining and analysis of the number of micronuclei in Caco-2 cells treated with PT-gliadin (1 $\mu\text{g}/\mu\text{l}$). For each condition, 1000 nuclei were considered. Scale bars=10 μm . Asterisks indicates $p < 0.05$, Anova One-way, compared to NT untreated samples.



Supplementary Figure 3. Effect of *BECN1* silencing on Caco-2 cells after PT-gliadin administration. PT-gliadin (1 $\mu\text{g}/\mu\text{l}$) was administered to Caco-2 cells, transfected with a pool of validated *siBECN1* molecules. (A) Immunoblotting and densitometric analysis of *BECN1* protein expression. (B) Collected media were analysed by fluorimeter (ext. 492 nm – emis. 517 nm). Asterisk indicates statistical significance $p < 0.05$, Anova One-way, compared to untreated sample (nt). Fluorescence was reported as arbitrary units. SD bars (n=3) are reported.