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## ATG4B/autophagin-1 regulates intestinal homeostasis and protects mice from experimental colitis

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**Keywords:** ATG4B, autophagin-1, autophagy, colitis, inflammation, intestinal homeostasis, cysteine peptidase, Paneth cell

**Abbreviations:** ATG4B, autophagy-related 4B, cysteine peptidase; IBD, inflammatory bowel disease; DSS, dextran sodium sulfate; LPS, lipopolysaccharide; LC3, microtubule-associated protein 1 light chain 3; GFP-LC3, green fluorescent protein-LC3; BM, bone marrow; WT, wild type; ATG16L1, autophagy-related 16-like 1; IRGM, immunity-related GTPase family M; ULK1, unc-51-like kinase 1; PE, phosphatidylethanolamine; NOD2, nucleotide-binding oligomerization domain containing 2; GABARAP, GABA(A) receptor-associated protein; GABARAPL1, GABA(A) receptor-associated protein like 1; GATE-16, Golgi-associated ATPase enhancer of 16 kDa; *BECN1*, Beclin 1, autophagy related; SQSTM1, sequestosome 1; IL1A, interleukin 1 alpha; IL6, interleukin 6;