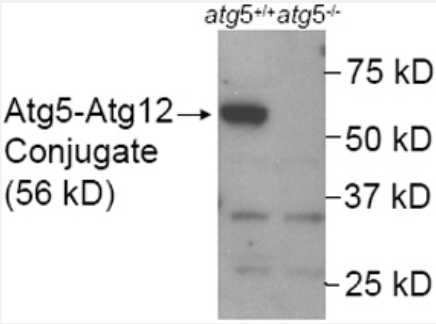
ATG5 polyclonal antibody

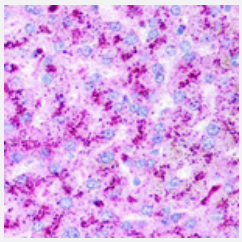
Catalog # PAB12482 Size 100 uL

Applications



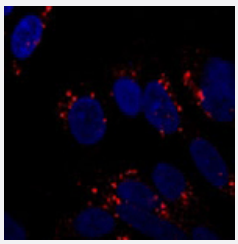
Western Blot (Cell lysate)

Western blot analysis of ATG5 in mouse wildtype ES cell lysate (Lane 1) using ATG5 polyclonal antibody (Cat # PAB12482). Lane 2 : ATG5 KO ES cell lysate (negative control). Photo courtesy of Dr. Beth Levine, UT Southwestern Medical Center.



Immunohistochemistry

Staining of ATG5 in human liver hepatocytes using ATG5 polyclonal antibody (Cat # PAB12482) at 2.5 ug/mL .



Immunofluorescence

Immunofluorescent staining of ATG5 on SH-SY5Y cells using ATG5 polyclonal antibody (Cat # PAB12482) at 1 : 250. Photo courtesy of an anonymous collaborator.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ATG5.
Immunogen	A synthetic peptide corresponding to amino acids 1-50 of human ATG5.

Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody is selective for the full-length and calpain cleaved isoform proteins. The short isoform is missing a.a. 1-79. The calpain cleaved form of ATG5 is missing a.a. 195-275.
Form	Liquid
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2.5 ug/mL) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (30% glycerol, 0.09% sodium azide)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunohistochemistry

  Staining of ATG5 in human liver hepatocytes using ATG5 polyclonal antibody (Cat # PAB12482) at 2.5 ug/mL .

- Immunofluorescence

  Immunofluorescent staining of ATG5 on SH-SY5Y cells using ATG5 polyclonal antibody (Cat # PAB12482) at 1 : 250. Photo courtesy of an anonymous collaborator.

Gene Info — ATG5

Entrez GeneID	9474
Protein Accession#	Q9H1Y0
Gene Name	ATG5

Gene Alias	APG5, APG5-LIKE, APG5L, ASP, hAPG5
Gene Description	ATG5 autophagy related 5 homolog (S. cerevisiae)
Omim ID	604261
Gene Ontology	Hyperlink
Gene Summary	S. cerevisiae)-like|APG5 autophagy 5-like|ATG5 autophagy related 5-like|OTTHUMP00000017823|OTTHUMP00000017824|OTTHUMP00000040507|apoptosis specific protein
Other Designations	APG5 (autophagy 5, S. cerevisiae)-like|APG5 autophagy 5-like|ATG5 autophagy related 5-like|OTTHUMP00000017823|OTTHUMP00000017824|OTTHUMP00000040507|apoptosis specific protein

Publication Reference

- A key role for autophagy and the autophagy gene Atg16l1 in mouse and human intestinal Paneth cells.

  Cadwell K, Liu JY, Brown SL, Miyoshi H, Loh J, Lennerz JK, Kishi C, Kc W, Carrero JA, Hunt S, Stone CD, Brunt EM, Xavier RJ, Sleckman BP, Li E, Mizushima N, Stappenbeck TS, Virgin HW 4th.

  Nature 2008 Nov; 456(7219):259.

  Application: WB-Ce, Mouse, Mouse intestinal epithelium, MEF cells

- Compensatory activation of ERK1/2 in Atg5-deficient mouse embryo fibroblasts suppresses oxidative stress-induced cell death.

  Pyo JO, Nah J, Kim HJ, Lee HJ, Heo J, Lee H, Jung YK.

  Autophagy 2008 Apr; 4(3):315.

  Application: WB-Ce, WB-Tr, Human, MEF, SH-SY5Y cells

- Loss of macroautophagy promotes or prevents fibroblast apoptosis depending on the death stimulus.

  Wang Y, Singh R, Massey AC, Kane SS, Kaushik S, Grant T, Xiang Y, Cuervo AM, Czaja MJ.

  The Journal of Biological Chemistry 2008 Feb; 283(8):4766.

  Application: WB-Ce, Mouse, MEFs

Pathway

- Regulation of autophagy

Disease

- Adenocarcinoma
- Colorectal Neoplasms
- Huntington Disease
- Microsatellite Instability
- Stomach Neoplasms
- Tobacco Use Disorder