SICGEN ANTIBODIES

Product Data Sheet

Catalogue No.	Qty:
AB0083-200	600 µg

Anti-ATG12

Source: Goat

General description: Goat polyclonal antibody to ATG12 - autophagosome marker. Autophagy is a process of bulk protein degradation in which cytoplasmic components, including organelles, are enclosed in double-membrane structures called autophagosomes and delivered to lysosomes or vacuoles for degradation. ATG12 is the human homolog of a yeast protein involved in autophagy.

Alternative names: APG12, Apg12 (autophagy, yeast) homolog, APG12L, FBR93, HAPG12, autophagy protein 12, autophagy-related protein 12 antibody.

Form: Polyclonal antibody supplied as a 200 µl (3 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

Immunogen: Purified recombinant peptide within residues 65 aa to the N-terminus of human ATG12 produced in E. coli.

Specificity: Detects GFP-ATG12 in transfected cells by Western blot.

Reactivity: Reacts with Human, Rat, Mouse, Monkey and Canine proteins

Sample	WB	IHC (F)	IHC (P)	IF	ELISA
Human	+++	+++	+++	+++	ND
Rat	+++	+++	+++	+++	ND
Mouse	+++	+++	+++	+++	ND
Canine	+++	+++	+++	+++	ND
Monkey	+++	+++	+++	+++	ND

+++ excellent, ++ good, + poor, ND not determined

Usage:

WB:	1:250-1:2,000
IF:	1:50-1:250

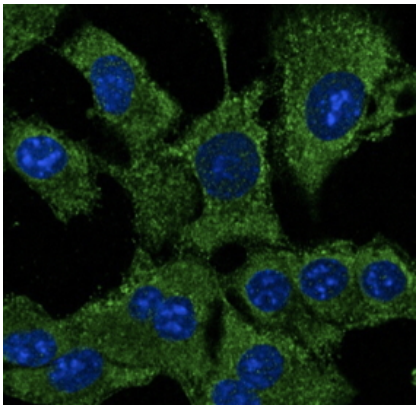
IHC (F): 1:200-1:1,000
IHC (P): 1:200-1:1,000

Storage: For continuous use, store at 2-8 C for one-two days. For extended storage, store in -20 C freezer. Working dilution samples should be discarded if not used within 12 hours.

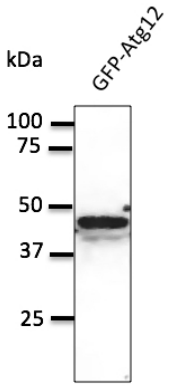
Special instructions: The antibody solution should be gently mixed before use..

References:

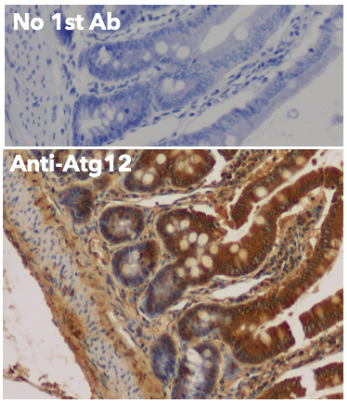
1. Kharaziha P, Panaretakis T. Methods Enzymol. 2017;587:247-255. PMID: 28253959



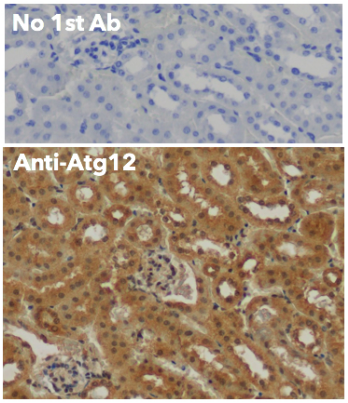
Immunofluorescence – anti-ATG12 Ab – Autophagosome Marker in Hepa1-6 cells at 1/50 dilution; cells were fixed with methanol;



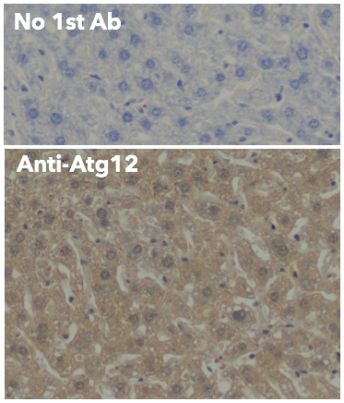
Anti-Atg12 Ab at 1/500 dilution; 293HEK cells transfected with GFP-Atg12; lysate at 100 µg per lane; rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



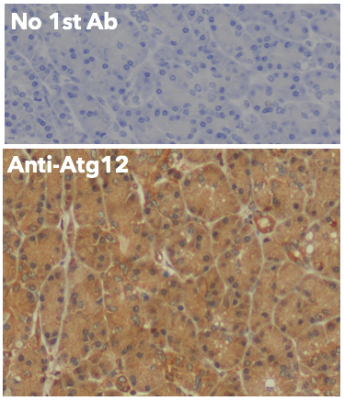
IHC of mouse stomach anti-Atg12 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-Atg12 Ab at 1:500/DAB detection;



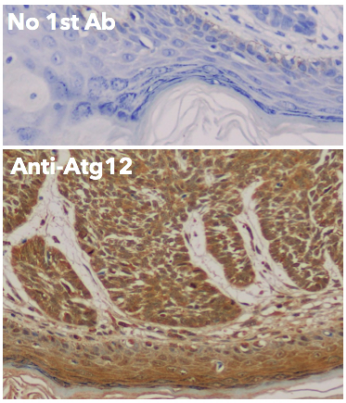
IHC of mouse kidney using anti-Atg12 antibodyand FFPE tissue after heat-induced antigenretrieval. Anti-Atg12 Ab at 1:500/DAB detection;



IHC of mouse liver using anti-Atg12 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-Atg12 Ab at 1:500/DAB detection;



IHC of human pancreas anti-Atg12 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-Atg12 Ab at 1:500/DAB detection;



IHC of human skin anti-Atg12 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-Atg12 Ab at 1:500/DAB detection;

For research use only, not for diagnostic use

SICGEN's Proprietary Immunogen Policy

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.