



Datasheet for ABIN6260107
anti-ATG5 antibody (C-Term)



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3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	ATG5
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthesized peptide derived from human APG5L/ATG5, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	APG5L/ATG5 Antibody detects endogenous levels of total APG5L/ATG5.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	ATG5
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Target Details

Alternative Name: [ATG5 \(ATG5 Products\)](#)

Background: Description: Involved in autophagic vesicle formation. Conjugation with ATG12, through a ubiquitin-like conjugating system involving ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the vesicle membranes. Involved in mitochondrial quality control after oxidative damage, and in subsequent cellular longevity. Plays a critical role in multiple aspects of lymphocyte development and is essential for both B and T lymphocyte survival and proliferation. Required for optimal processing and presentation of antigens for MHC II. Involved in the maintenance of axon morphology and membrane structures, as well as in normal adipocyte differentiation. Promotes primary ciliogenesis through removal of OFD1 from centriolar satellites and degradation of IFT20 via the autophagic pathway.

Gene: ATG5

Molecular Weight: 32kDa

Gene ID: 9474

UniProt: [Q9H1Y0](#)

Pathways: [Activation of Innate immune Response](#), [Production of Molecular Mediator of Immune Response](#), [Autophagy](#)

Application Details

Application Notes: WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

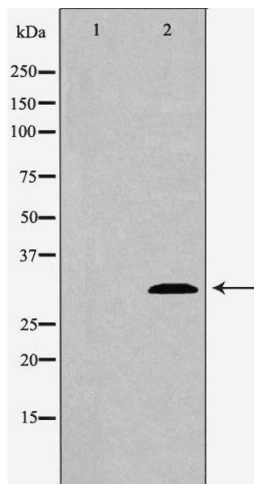
Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

Expiry Date: 12 months

Publications

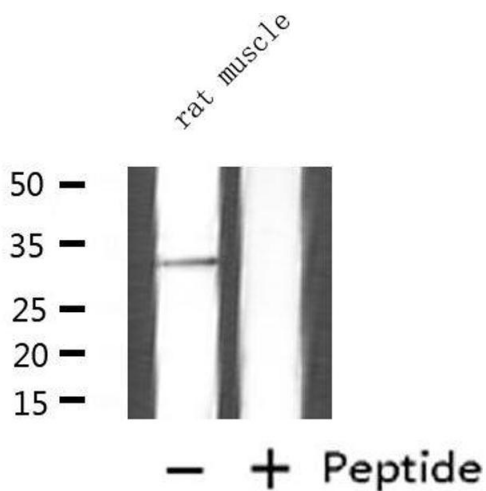
Product cited in: Wang, Li, Chen, Luo, Gu, Wang, Wu, Xu et al.: "Baicalin extracted from Huangqin (Radix Scutellariae Baicalensis) induces apoptosis in gastric cancer cells by regulating B cell lymphoma (Bcl-2)/Bcl-2-associated X protein and activating caspase-3 ..." in: **Journal of traditional Chinese medicine = Chung i tsa chih ying wen pan**, Vol. 37, Issue 2, pp. 229-5, (2018) ([PubMed](#)).

Images



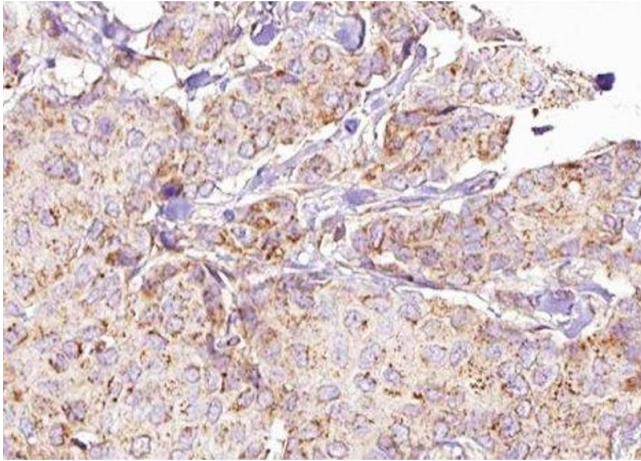
Western Blotting

Image 1. Western blot analysis of extracts of mouse spleen tissue, using ATG5 antibody. The lane on the left is treated with the antigen-specific peptide.



Western Blotting

Image 2. Western blot analysis of extracts from rat muscle, using ATG5 Antibody.



Immunohistochemistry

Image 3. ABIN6276290 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22;ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary