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Datasheet for ABIN5542579 anti-ATG5 antibody

4 Images



Overview

Quantity:	0.1 mg
Target:	ATG5
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ATG5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Synthesized peptide of human ATG5 (AA: MTDDKDVLRDVWFGRIc).
Sequence:	Synthesize d peptide of human ATG5 (AA: MTDDKDVLRD VWFGRIc).
Clone:	8E8G6
lsotype:	lgG2a

Target Details

Target:	ATG5
Alternative Name:	ATG5 (ATG5 Products)
Background:	Description: ATG5 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

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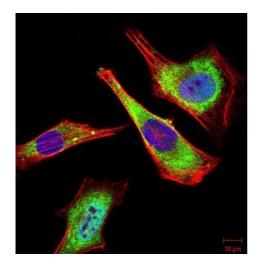
	as an E3-like enzyme which is required for lipidation of ATG8, family proteins and their
	association to the vesicle membranes. Involved in mitochondrial quality control after, oxidative
	damage, and in subsequent cellular longevity. The ATG12-ATG5 conjugate also negatively
	regulates the, innate antiviral immune response by blocking the type I IFN production pathway
	through direct association with, RARRES3 and MAVS. Also plays a role in translation or delivery
	of incoming viral RNA to the translation, apparatus. 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,
	Aliases: ASP, APG5, APG5L, hAPG5, APG5-LIKE
Molecular Weight:	32.4 kDa
Gene ID:	9474
HGNC:	9474
Pathways:	Activation of Innate immune Response, Production of Molecular Mediator of Immune Response
	, Autophagy
Application Details	

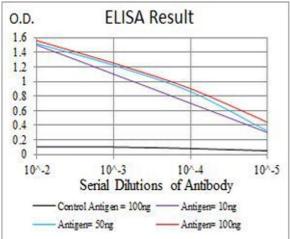
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: , ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

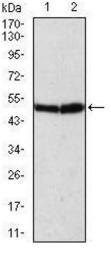
Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

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Immunofluorescence

Image 1. Immunofluorescence analysis of Hela cells using ATG5 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

ELISA

Image 2. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),

Western Blotting

Image 3. Western blot analysis using ATG5 mouse mAb against Hela (1) and K562 (2) cell lysate.

Please check the product details page for more images. Overall 4 images are available for ABIN5542579.

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