Datasheet for ABIN6941158

Recombinant anti-ATG5 antibody (AA 1-119)

2 Images

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Overview

Quantity:	100 µg
Target:	ATG5
Binding Specificity:	AA 1-119
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This ATG5 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human ATG5 protein (around aa 1-119) (exact sequence is proprietary)
Clone:	RATG5-2553
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	ATG5
Alternative Name:	ATG5 (ATG5 Products)

Target Details

Background:	The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. The ATG5 protein is essential for autophagy, a process that is usually beneficial for cells to self-degrade their own components when they are no longer useful.
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:	Positive Control: K562, U-87, A431, THP-1, PANC-1, Raji or HeLa cells. Ovary, Endometrium, Colon or Duodenum. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

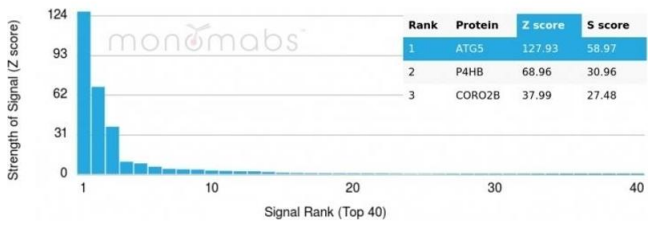
Handling

Concentration:	200 µg/mL
Buffer:	10mM PBS with 0.05% BSA & 0.05% 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,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

Handling

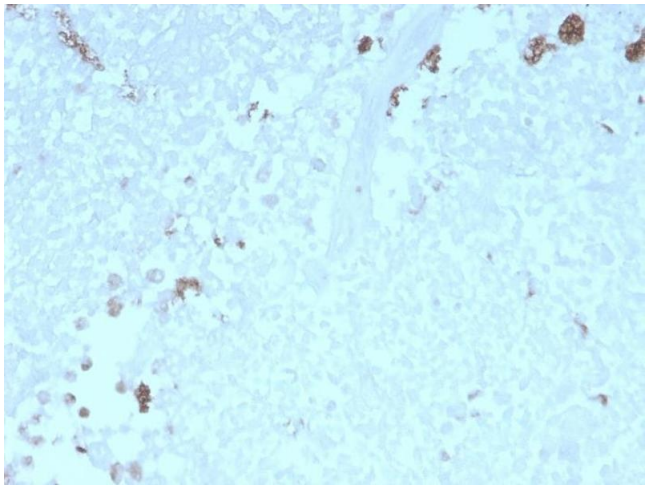
	is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



Protein Array

Image 1. Analysis of Protein Array containing more than 19,000 full-length human proteins using ATG5 Monospecific Recombinant Mouse Monoclonal Antibody (rATG5/2553).Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDâ€™s) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDâ€™s) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Uterus stained with ATG5 Mouse Monoclonal Antibody (rATG5/2553).