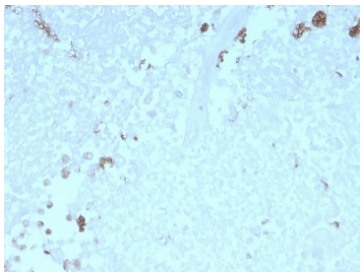
Recombinant ATG5 Antibody [clone rATG5/2553] (V8241)

Catalog No.	Formulation	Size
V8241-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8241-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8241SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

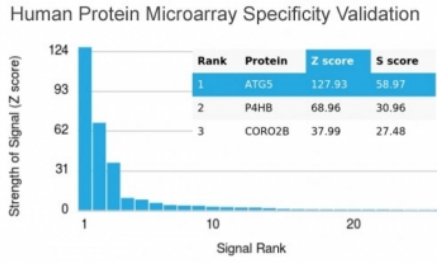
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rATG5/2553
Purity	Protein G affinity chromatography
UniProt	Q9H1Y0
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This recombinant ATG5 antibody is available for research use only.



IHC staining of FFPE human uterus with recombinant ATG5 antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant ATG5 antibody (clone rATG5/2553). These results demonstrate the foremost specificity of the rATG5/2553 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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.

Application Notes

Optimal dilution of the recombinant ATG5 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 1-119) was used as the immunogen for the ATG5 antibody.

Storage

Store the recombinant ATG5 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).