ATG5 (Autophagy Marker) Antibody

Mouse Monoclonal Antibody [Clone ATG5/2553]

Catalog No	Format	Size
9474-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
9474-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
9474-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

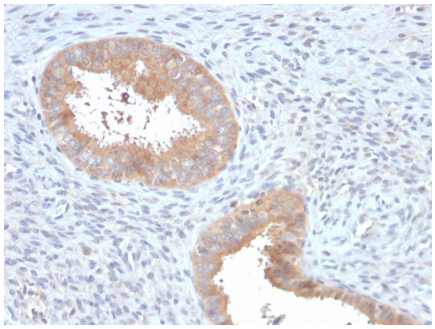
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

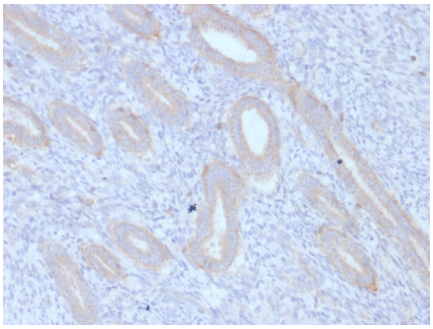
Clone	ATG5/2553
Gene Name	ATG5
Immunogen	Recombinant fragment of human ATG5 protein (around aa 1-119) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	32kDa
Cellular Localization	Cytoplasm, Preautophagosomal structure membrane
Species Reactivity	Human
Positive Control	A431, Colon or Duodenum., Endometrium, K562, PANC-1, Raji or HeLa cells. Ovary, THP-1, U-87 or Human Liver

**Optimal dilution for a specific application should be determined.*

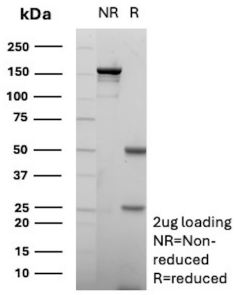
Product Images for ATG5 (Autophagy Marker) Antibody



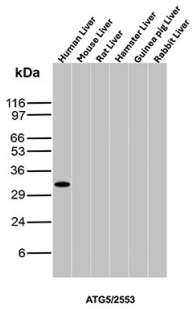
Formalin-fixed, paraffin-embedded human Uterus stained with ATG5 Mouse Monoclonal Antibody (ATG5/2553).



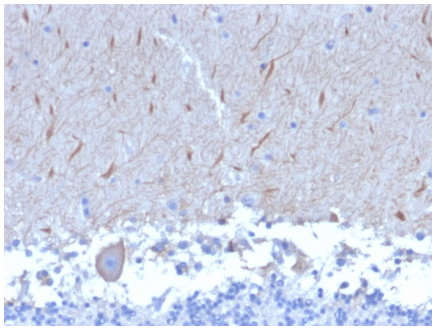
Formalin-fixed, paraffin-embedded human Endometrium stained with ATG5 Mouse Monoclonal Antibody (ATG5/2553).



SDS-PAGE Analysis of Purified ATG5 Mouse Monoclonal Antibody (ATG5/2553). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of Human Liver, Mouse Liver, Rat Liver, Hamster Liver, Guinea pig Liver and Rabbit Liver tissue lysates using ATG5 Mouse Monoclonal Antibody (ATG5/2553).



Formalin-fixed, paraffin-embedded human Brain stained with ATG5 MouseMonoclonal Antibody (ATG5/2553).

Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Immunology

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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