

## ATG5 (Autophagy Marker) Antibody

Mouse Monoclonal Antibody [Clone ATG5/2101]

Catalog No	Format	Size
9474-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
9474-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
9474-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

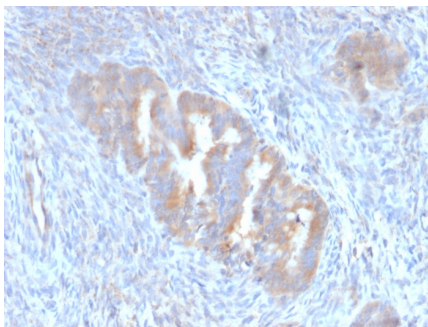
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

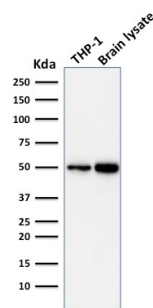
<b>Clone</b>	ATG5/2101
<b>Gene Name</b>	ATG5
<b>Immunogen</b>	Recombinant fragment of human ATG5 protein (around aa 1-119) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	50-32kDa
<b>Cellular Localization</b>	Cytoplasm, Preautophagosomal structure membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Colon or Duodenum (IHC)., Endometrium, ovary, PANC-1, Raji or HeLa cells. Brain, THP-1

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

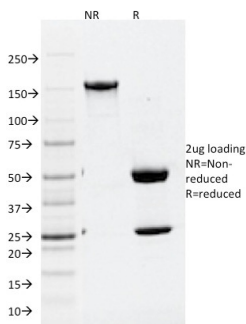
### Product Images for ATG5 (Autophagy Marker) Antibody



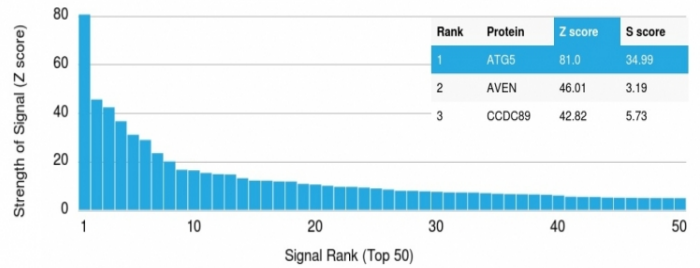
Formalin-fixed, paraffin-embedded human Endometrium stained with ATG5 Mouse Monoclonal Antibody (ATG5/2101).



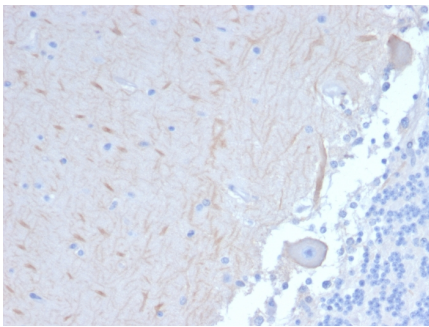
Western Blot Analysis of THP-1 cell and human Brain tissue lysate using ATG5 Mouse Monoclonal Antibody (ATG5/2101).



SDS-PAGE Analysis of Purified ATG5 Mouse Monoclonal Antibody (ATG5/2101). Confirmation of Integrity and Purity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using ATG5 Mouse Monoclonal Antibody (ATG5/2101). 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 HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD'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.



Formalin-fixed, paraffin-embedded human Brain stained with ATG5 Mouse Monoclonal Antibody (ATG5/2101).

### 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.

### 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.

### 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

Autophagy, Immunology