

#### DESCRIPTION

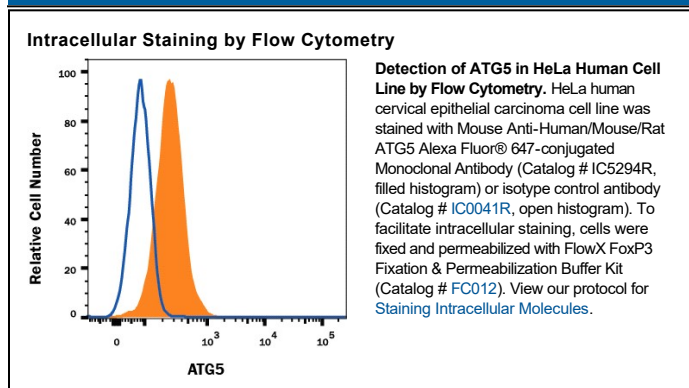
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat ATG5 in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 603813
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human ATG5 Asn99-Thr193 Accession # Q9H1Y0
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	5 µL/10 <sup>6</sup> cells	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> ● 12 months from date of receipt, 2 to 8 °C as supplied.

#### BACKGROUND

ATG5 (Autophagy-related Protein), also known as APG5L and Apoptosis-specific Protein, is a ubiquitous 32 kDa member of the ATG family of proteins. ATG5 exists as a covalent heterodimer with ATG12 through the creation of a Lys-Gly linkage. The ATG5:ATG12 heterodimer associates noncovalently with an ATG16 multimer to generate autophagosomes. Human ATG5 is 275 amino acids in length and contains N- and C-terminal ubiquitin-like domains (aa 15-105 and 187-275) separated by a helix-rich linker region that contains a dimerizing Lys at position 130. There are two potential alternate start sites at Met80 and Met173. Over aa 99-193, human ATG5 is 97% aa identical to mouse ATG5.

#### PRODUCT SPECIFIC NOTICES

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