

## Mouse Monoclonal Antibody to

# ATG5 (Autophagy-related gene 5)

## clone 11C3

**Order No.:** 0263-100/ATG5-11C3  
**Size (µg)** 100  
**Lot No.:** 0263S



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03/090708F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human	WB	24, 33, 55 kDa	SH-SY5Y		recombinant ATG5

### Background and Specificity:

Autophagy as a response to cellular stress and starvation is an alternative process of proteasomal degradation for some long-lived proteins and organelles. Alterations in the autophagic-lysosomal compartment have been linked to neuronal death in many neurodegenerative disorders as well as in transmissible neuronal pathologies (prion diseases). The gene product of autophagy-related gene 5 (ATG5) is required for autophagosome-formation. ATG5 also enhances the susceptibility towards apoptotic stimuli. Like Bcl-2, ATG5 exhibits a dual function by modulating both autophagy and apoptosis.

**Mab ATG5-11C3** specifically recognizes the ATG5-ATG12 protein complex at 55 kDa in immunoblot application.

### Related Products

**mab to ATG5**

#0262-100/ATG5-7C6

**mab to LC3B**

#0231-100/LC3-5F10

**mab to LC3B**

#0260-100/LC3-2G6

**mab to LC3ABC**

#0261-100/LC3-5H3

**mab to Beclin**

#0240-100/Beclin-12B4

### Alzheimer Disease

**mab to βA4 (1-40), C-Terminus**

#0060-100/bA4(40)-5C3

**mab to βA4 (1-42), C-Terminus**

#0061-100/bA4(42)-8G7

**mab to βA4 (1-40/42), C-Terminus**

#0062-100/bA4(40/42)-9F1

**mab to βA4 (1-43), C-Terminus**

#0095-100/bA4(43)-6G12

**mab to βA4, N-Terminus**

#0064-100/bA4N-19H5

**mab to βA4, N-Terminus**

#0084-100/bA4N-19H11

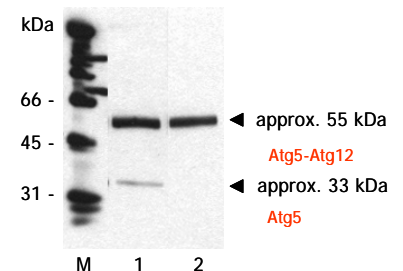
**mab to βA4, N-Terminus**

#0197-100/bA4N-11H3

For monoclonal antibodies against PKB/akt, and SAPK/jnk, please refer to our website at [www.nanotools.de](http://www.nanotools.de)

<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography.
<b>Formulation:</b>	Lyophilized from 1ml PBS / 0.09% Na-azide / PEG and Sucrose.
<b>Reconstitution:</b>	Reconstitute with 1ml H <sub>2</sub> O (15 min, RT).
<b>Stability:</b>	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. <b>Avoid repeated freeze / thaw cycles</b>
<b>Positive Control:</b>	#1001: Cell lysate from untreated SH-SY5Y cells.
<b>Immunoblotting:</b>	0.5 µg/ml for HRPO/ECL detection <b>Recommended blocking buffer:</b> Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.
<b>Immunoprecipitation:</b>	ND
<b>Immunocytochemistry:</b>	ND
<b>ELISA:</b>	ND

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**



Whole lysate of serum starved SH-SY5Y cells was applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with the indicated monoclonal antibodies at 0.5 µg/ml for 1h at 15-22°C and developed with ECL (exposure time: 30 sec).

Lane :

M: Molecular Weight Marker

1: ATG5-7C6

2: ATG5-11C3