

Mouse Monoclonal Antibody to

ATG5 (Autophagy-related gene 5)

clone 7C6

Order No.: 0262-100/ATG5-7C6
Size (µg) 100
Lot No.: 0262S

www.nanotools.de

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03/090708F

Isotype	Species	Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human		ICC, WB, flow cytometry	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 ATG5-7C6 specifically recognizes the ATG5-ATG12 protein complex at 55 kDa and ATG5 at 33 kDa in immunoblot application.

Related Products

mab to ATG5

#0263-100/ATG5-11C3

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

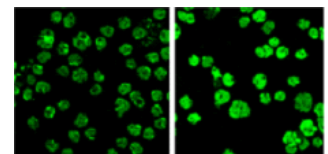
#0197-100/bA4N-11H3

For monoclonal antibodies against PKB/akt, and SAPK/jnk, please refer to our website at www.nanotools.de

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography.
Formulation:	Lyophilized from 1ml PBS / 0.09% Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1ml H ₂ O (15 min, RT).
Stability:	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. Avoid repeated freeze / thaw cycles
Positive Control:	#1001: Cell lysate from untreated SH-SY5Y cells.
Immunoblotting:	0.5 µg/ml for HRPO/ECL detection Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.
Immunoprecipitation:	ND
Immunocytochemistry:	0.5 µg/ml
ELISA:	ND

endogenous overexpression

Atg5 33kDa-Atg5



Monoclonal antibody ATG5-7C6 detects the endogenous Atg5 as well as the overexpressed 33 kDa-protein in Jurkat cells. Cells were fixed with 4% paraformaldehyd for 5 min and permeabilized with 0.05% saponin. After 10 min acetone-treatment, Atg5 was detected with mab ATG5-7C6 at 0.5µg/ml.

Images by courtesy of
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