

Product datasheet for **AM20205PU-N**

ATG5 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 7C6]

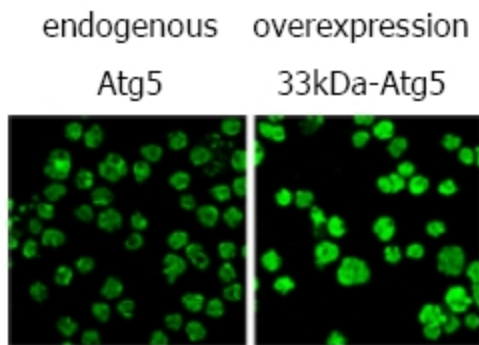
Product data:

Product Type:	Primary Antibodies
Clone Name:	7C6
Applications:	FC, IF, WB
Recommended Dilution:	Flow Cytometry. Immunoblotting (Western Blot): 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking buffer and blot incubation buffer. Immunocytochemistry: 0.5 µg/ml. <i>Included Positive Control:</i> Cell lysate from untreated SH-SY5Y cells (See Protocols).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant ATG5
Specificity:	Recognizes the ATG5-ATG12 protein complex at 55 kDa and ATG5 at 33 kDa in Immunoblot application.
Formulation:	PBS State: Purified State: Lyophilized purified IgG fraction Stabilizer: PEG and Sucrose Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore with 1ml H ₂ O (15 min, RT).
Purification:	Purified from Serum-Free Cell Culture Supernatant by subsequent ultrafiltration and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -20°C to -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months.

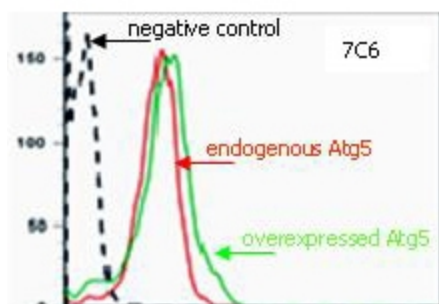


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Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	24, 33, 55 kDa
Gene Name:	autophagy related 5
Database Link:	Entrez Gene 11793 Mouse Entrez Gene 365601 Rat Entrez Gene 9474 Human Q9H1Y0
Background:	Autophagy as a response to 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.
Synonyms:	ASP, APG5-like, Autophagy protein 5
Note:	Protocol: Positive Control: Cell lysate from untreated SH-SY5Y cells. Formulation: Lyophilized cell lysate from Serum starved SH-SY5Y cells. Reconstitution: Restore by addition of 200 μ l H ₂ O. After complete solubilization add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min. Application: The Positive Control lysate is recommended for Immunoblot applications. 20 μ l of Positive Control correspond to ca. 20.000 cells. Use 20 μ l/lane (mini gel) for HRPO/ECL detection of the target proteins. Storage: Aliquote and store frozen. Avoid repeated freeze/thaw cycles. Shelf life: one year from despatch. The Lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as Immunoprecipitation.
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of autophagy, RIG-I-like receptor signaling pathway

Product images:

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 0.5 ug/ml. *Images by courtesy of Hans-Uwe Simon, MD, PhD, University of Bern.*



Immunofluorescence staining and Analysis by Flow Cytometry: AM20205PU-N ATG5 antibody detects the endogenous Atg5 as well as the overexpressed 33 kDa protein in Jurkat cells.