

Datasheet for ABIN2468252

ATG7 Protein (AA 450-698) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	0.05 mg
Target:	ATG7
Protein Characteristics:	AA 450-698
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG7 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Mass Spectrometry (MS), Neutralization (Neut)

Product Details

Purity:	~95 %
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Target Details

Target:	ATG7
Alternative Name:	ATG7 (ATG7 Products)
Background:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components (1,2). This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1 (3). Another member of the autophagy family of proteins is APG7 which was identified in yeast as a

Target Details

ubiquitin-E1-like enzyme , this function is conserved in the mammalian homolog (4). In mammalian cells, APG7 is essential for autophagy conjugation systems, autophagosome formation, starvation-induced bulk degradation of proteins and organelles (5). It has been suggested that caspase-8 may alter APG7 levels and thus the APG7 program of autophagic cell death (6).

Molecular Weight: 30 kDa (Calculated)

Gene ID: 74244

OMIM: 37589293

UniProt: [Q9D906](#)

Pathways: [Response to Water Deprivation](#), [Autophagy](#)

Application Details

Application Notes: This recombinant protein can be used for WB, ELISA, MS and neutralization assays.

Restrictions: For Research Use only

Handling

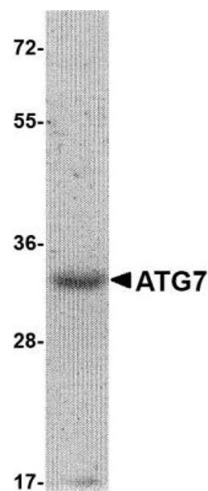
Format: Liquid

Buffer: 1X PBS containing 10 % glycerol

Handling Advice: Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Storage: -80 °C

Storage Comment: Store in working aliquots at -70 °C.



Western Blotting

Image 1.