

Human ATG5 Knockdown Cell Lysate

Cat. No. ATG5-059HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ATG5 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	32 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ATG5 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Regulation of autophagy, RIG-I-like receptor signaling pathway
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ATG5 ATG5 autophagy related 5 homolog (S. cerevisiae) [Homo sapiens (human)]
Official Symbol	ATG5
Synonyms	ATG5; ATG5 autophagy related 5 homolog (S. cerevisiae); APG5 (autophagy 5, S. cerevisiae) like, APG5 autophagy 5 like (S. cerevisiae), APG5L; autophagy protein 5; APG5; ASP; hAPG5; apoptosis specific protein; apoptosis-specific protein; APG5L; APG5-LIKE;
Gene ID	9474
mRNA Refseq	NM_004849
Protein Refseq	NP_004840
MIM	604261

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UniProt ID

Q9H1Y0

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