



Human Ubiquitin-like modifier-activating enzyme ATG7(ATG7) ELISA kit

Product Code	CSB-EL002294HU
Abbreviation	ATG7
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	ATG7 autophagy related 7 homolog (S. cerevisiae)
Uniprot No.	O95352
Alias	APG7-LIKE, APG7L, DKFZp434N0735, GSA7, APG7 autophagy 7-like ubiquitin activating enzyme E1-like protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Autophagy
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	28 pg/mL-1800 pg/mL
Sensitivity	7 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cell Biology
Gene Names	ATG7
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ATG7 ELISA Kit was designed for the quantitative measurement of Human ATG7 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 28 pg/mL-1800 pg/mL and the sensitivity is 7 pg/mL.
Target Details	This gene was identified based on homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae APG7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating









enzymes.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human ATG7 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	86
	Range %	82-90
1:2	Average %	101
	Range %	97-104
1:4	Average %	98
	Range %	94-102
1:8	Average %	105
	Range %	101-109

Recovery

The recovery of human ATG7 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	84	81-89
EDTA plasma (n=4)	101	97-104

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.

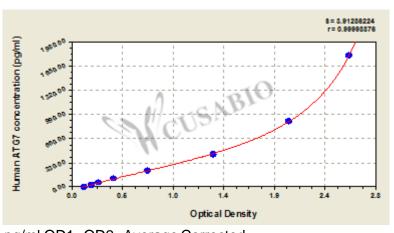












pg/ml OD1 OD2 Average Corrected 1800 2.539 2.639 2.589 2.466

2.058 2.004 2.031 900 1.908 450 1.275 1.368 1.322 1.199 225 0.701 0.724 0.713 0.590 112.5 0.401 0.394 0.398 0.275 0.253 0.248 0.251 0.128

28 0.190 0.187 0.189 0.066 0 0.124 0.122 0.123 ?

Msds

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