





ATG12 Polyclonal Antibody

Catalog Number 36-6400 Product data sheet

Details	
Size	100 μg
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	Synthetic peptide derived from the internal region of the human Apg12 protein. This sequence differs from the mouse sequence by one amino acid.
Conjugate	Unconjugated
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C

Species Reactivity	
Species reactivity	Human, Mouse
Published species	Non-human primate, Human, Mouse, Not Applicable
Tested Applications	Dilution *
ELISA (ELISA)	Assay-dependent
Western Blot (WB)	1:500
Published Applications	
Western Blot (WB)	See 2 publications below

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Background/Target Information

ATG12, a member of the autophagy protein family, forms a conjugate with ATG5; this conjugate has a ubiquitin-protein ligase (E3)-like activity for protein lipidation in autophagy. This conjugate also associates with innate immune response proteins such as RIG-I and VISA (also known as IPS-1), inhibiting type I interferon production and permitting viral replication in host cells. ATG12 has also been shown to interact with ATG10 in human embryonic kidney cells in the presence of ATG7. At least two isoforms of ATG12 are known to exist. 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. This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1.

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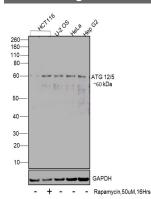
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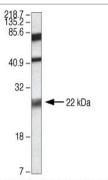


Product Images For ATG12 Polyclonal Antibody



ATG12 Antibody (36-6400) in WB

Western blot was performed using Anti-ATG12 Polyclonal Antibody (Product # 36-6400) and a 60kDa band corresponding to ATG12 was observed across cell lines tested. Membrane enriched extracts (30 µg lysate) of HCT 116 (Lane 1), HCT 116 treated with rapamycin (50uM, 16 Hrs) (Lane 2), U-2 OS (Lane 3), HeLa (Lane 4), Hep G2 (Lane 5) were electrophoresed using NuPAGETM 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:500 Dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) SuperclonalTM Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). ATG12 gets conjugated with ATG5. Expression of ATG12/5 is upregulated upon treatment with rapamycin in HCT116 cells.



ATG12 Antibody (36-6400) in WB

Western blot analysis of Apg12-transfected 293 cells using Rb anti-Apg12 (Product # 36-6400).

Western blot analysis of Apg12-transfected 293 cells using Rb anti-Apg12 (Cat. no. 36-6400).

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Publica References For	ATG12 Polyclonal Antibody	
2 Western Blot References		
Species / Dilution	Summary	
	36-6400 was used in western blot to screen for small-molecule modulators of mammalian autophagy	
Not Applicable / Not Cited	Nature chemical biology (2007; 3: 331) "Small molecules enhance autophagy and reduce toxicity in Huntington's disease models." Author(s):Sarkar S,Perlstein EO,Imarisio S,Pineau S,Cordenier A,Maglathlin RL,Webster JA,Lewis TA,O'Kane CJ, Schreiber SL,Rubinsztein DC PubMed Article URL:http://dx.doi.org/10.1038/nchembio883	
Non-human primate / Not Cited	The Journal of biological chemistry (2007; 282: 5641) "Trehalose, a novel mTOR-independent autophagy enhancer, accelerates the clearance of mutant huntingtin and	
Human / Not Cited	alpha-synuclein." Author(s):Sarkar S,Davies JE,Huang Z,Tunnacliffe A,Rubinsztein DC	
Mouse / Not Cited	PubMed Article URL:http://dx.doi.org/10.1074/jbc.M609532200	

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