Datasheet for ABIN6137246

anti-ATG14 antibody (AA 1-310)

3 Images

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Overview

Quantity:	100 µL
Target:	ATG14
Binding Specificity:	AA 1-310
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG14 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-310 of human ATG14 (NP_055739.2).
Sequence:	MASPSGKGAR ALEAPGCGPR PLARDLVDSV DDAEGLYVAV ERCPLCNTTR RRLTCAKCVQ SGDFVYFDGR DRERFIDKKE RLSRLKSKQE EFQKEVLKAM EGKWITDQLR WKIMSCKMRI EQLKQTICKG NEEMEKNSEG LLKTKEKNQK LYSRAQRHQE KKEKIQRHNR KLGDLVEKKT IDLRSHYERL ANLRRSHILE LTSVIFPIEE VKTGVRDPAD VSSESDSAMT SSTVSKLAEA RRTTYLSGRW VCDDHNGDTS ISITGPWISL PNNGDYSAYY SWVEEKKTTQ GPDMEQSNPA YTISAALCYA
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Product Details

Purification:	Affinity purification

Target Details

Target:	ATG14
Alternative Name:	ATG14 (ATG14 Products)
Background:	Required for both basal and inducible autophagy. Determines the localization of the autophagy-specific PI3-kinase complex PI3KC3-C1. Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine. Promotes BECN1 translocation from the trans-Golgi network to autophagosomes. Enhances PIK3C3 activity in a BECN1-dependent manner. Essential for the autophagy-dependent phosphorylation of BECN1. Stimulates the phosphorylation of BECN1, but suppresses the phosphorylation PIK3C3 by AMPK. Binds to STX17-SNAP29 binary t-SNARE complex on autophagosomes and primes it for VAMP8 interaction to promote autophagosome-endolysosome fusion. Modulates the hepatic lipid metabolism (By similarity.,ATG14,ATG14L,BARKOR,KIAA0831,Signal Transduction,Cell Biology & Developmental Biology,Autophagy,Endocrine & Metabolism,Mitochondrial metabolism,ATGs,ATG14
Molecular Weight:	42 kDa/55 kDa
Gene ID:	22863
UniProt:	Q6ZNE5
Pathways:	Autophagy

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

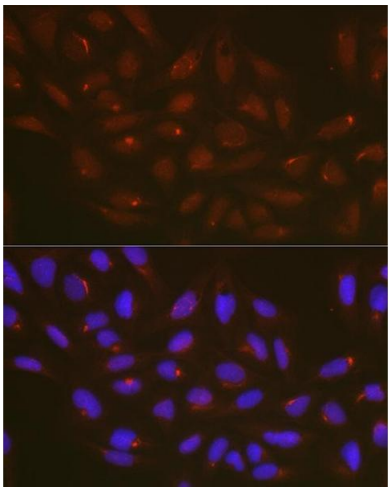
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

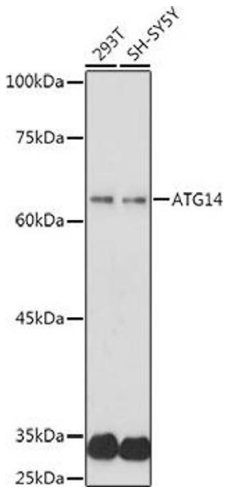
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



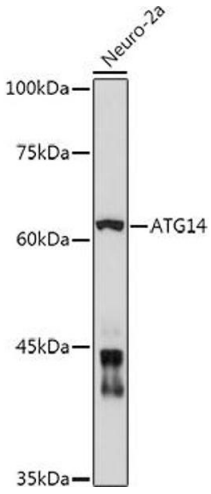
Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using Rabbit pAb (ABIN6131258, ABIN6137246, ABIN6137247 and ABIN6223428) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using antibody (ABIN6131258, ABIN6137246, ABIN6137247 and ABIN6223428) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 180s.



Western Blotting

Image 3. Western blot analysis of extracts of Neuro-2a cells, using antibody (ABIN6131258, ABIN6137246, ABIN6137247 and ABIN6223428) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 180s.