

**DATASHEET**

**ATG14 Rabbit Polyclonal Antibody**

CAT. NO. APA14683

**KEY FEATURES**

Target	ATG14	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**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 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to ATG14
Specificity	Recognizes endogenous levels of ATG14 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human ATG14
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 42; Observed: 60 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	KIAA0831; Beclin 1-associated autophagy-related key regulator; Barkor; Autophagy-related protein 14-like protein; Atg14L
Gene Symbol	ATG14
Entrez Gene	22863(Human); 100504663(Mouse); 305831(Rat)
SwissProt	Q6ZNE5(Human); Q8CDJ3(Mouse); D4A4K3(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

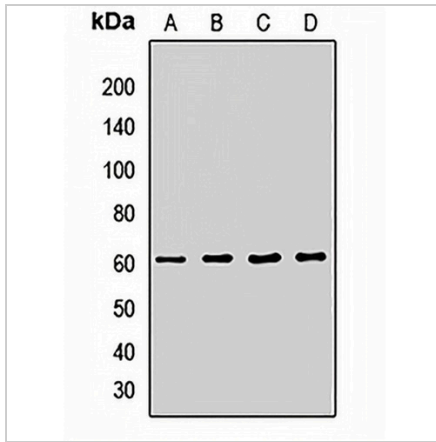
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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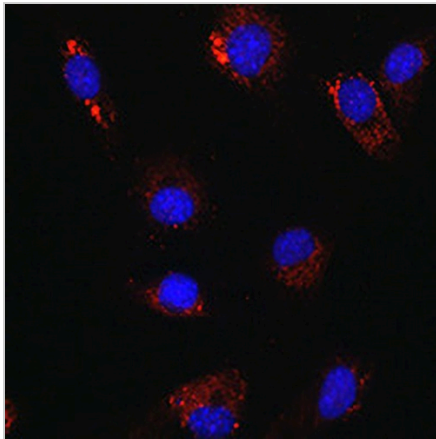
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**DATA**



Western blot analysis of ATG14 expression in Hela (A), mouse liver (B), rat brain (C), rat lung (D) whole cell lysates. (Predicted band size: 42; 55 kD; Observed band size: 60 kD)



Immunofluorescent analysis of ATG14 staining in BALB3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.