

Datasheet for ABIN7174570
anti-ATG3 antibody (AA 1-314) (HRP)



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Overview

Quantity:	100 µg
Target:	ATG3
Binding Specificity:	AA 1-314
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG3 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Ubiquitin-like-conjugating enzyme ATG3 protein (1-314AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	ATG3
Alternative Name:	ATG3 (ATG3 Products)
Background:	Background: E2 conjugating enzyme required for the cytoplasm to vacuole transport (Cvt), autophagy, and mitochondrial homeostasis. Responsible for the E2-like covalent binding of

Target Details

phosphatidylethanolamine to the C-terminal Gly of ATG8-like proteins (GABARAP, GABARAPL1, GABARAPL2 or MAP1LC3A). The ATG12-ATG5 conjugate plays a role of an E3 and promotes the transfer of ATG8-like proteins from ATG3 to phosphatidylethanolamine (PE). This step is required for the membrane association of ATG8-like proteins. The formation of the ATG8-phosphatidylethanolamine conjugates is essential for autophagy and for the cytoplasm to vacuole transport (Cvt). Preferred substrate is MAP1LC3A. Also acts as an autocatalytic E2-like enzyme, catalyzing the conjugation of ATG12 to itself, ATG12 conjugation to ATG3 playing a role in mitochondrial homeostasis but not in autophagy. ATG7 (E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with ATG3. Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway.

Aliases: 2610016C12Rik antibody, Apg 3 antibody, APG3 antibody, APG3 autophagy 3 like antibody, APG3 like antibody, APG3, S. cerevisiae, homolog of antibody, APG3-like antibody, APG3L antibody, Apg3p antibody, ATG 3 antibody, ATG3 antibody, ATG3 autophagy related 3 homolog antibody, ATG3 autophagy related 3 homolog (S. cerevisiae) antibody, ATG3_HUMAN antibody, Autophagy 3, S. cerevisiae, homolog of antibody, Autophagy Apg3p/Aut1p like antibody, autophagy related 3 antibody, Autophagy related protein 3 antibody, Autophagy-related protein 3 antibody, DKFZp564M1178 antibody, FLJ22125 antibody, hApg3 antibody, MGC15201 antibody, OTTHUMP00000214547 antibody, OTTHUMP00000214548 antibody, PC3 96 antibody, Protein PC3-96 antibody, Ubiquitin-like-conjugating enzyme ATG3 antibody

UniProt: [Q9NT62](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.