



# Rabbit Anti-Human ATG14 monoclonal antibody, clone 20I30M25 (CABT-L1201)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Target	ATG14
Immunogen	Multiple peptides corresponding to Human ATG14 (aa 63-79, 162-178, 277-293)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	20I30M25
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	ICC, IF, WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.2
Preservative	0.09% Sodium Azide
Storage	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

## BACKGROUND

## Introduction

ATG14 (Autophagy related protein homolog 14) is encoded by the ATG14 gene and is located on chromosome 14 in humans. It is also known as ATG14L or BARKOR (Beclin 1-associated autophagy-related key regulator). Autophagy is an evolutionarily conserved process that involves recycling of misfolded cellular proteins and degradation of dysfunctional organelles. Autophagy is induced as a cellular response to nutrient stress which includes the formation of autophagosomes, fusion of these with the lysosome and formation of the autophagolysosome. The Class III PI3-kinase, Vps34 and its interacting partner Beclin 1 have been shown to form a complex which specifically includes ATG 14 (type 1) or UVRAG (type 2). Atg 14 guides the type 1 complex to the preautophagosomal structure (PAS) and is critical for the initiation of autophagosome formation.

## Keywords

ATG14;autophagy related 14;ATG14L;BARKOR;KIAA0831;beclin 1-associated autophagy-related key regulator;Beclin 1-Interacting protein;ATG14 autophagy related 14 homolog;autophagy-related protein 14-like protein

# GENE INFORMATION

## Entrez Gene ID

[22863](#)

## UniProt ID

[Q6ZNE5](#)