



Rabbit Anti-Becn2 polyclonal antibody (CABT-RM103)

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

PRODUCT INFORMATION

Specificity	Detects Beclin-2 in murine cells. It targets an epitope within 14 amino acids from the N-terminal.
Target	Becn2
Immunogen	KLH-conjugated linear peptide corresponding to 14 amino acids from the N-terminal region of murine Beclin-2.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Human
Purification	Affinity Purified
Conjugate	unconjugated
Applications	WB, IHC
Molecular Weight	~50 kDa observed; 50.29 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	25 µg
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide

BACKGROUND

Introduction

Beclin-2 is encoded by Becn2 gene in murine species. Beclin-2 is a member of the Atg6/Beclin family and is involved in 2 distinct lysosomal degradation pathways and acts as a regulator of autophagy and as a regulator of G-protein coupled receptors turnover. It regulates degradation in lysosomes of a variety of G-protein coupled receptors via its interaction with GPRASP1/GASP1. Beclin-2 family members are specific to mammals whereas Beclin-1 subfamily members are present in more primitive vertebrates. Beclin-2 interacts with ATG14, AMBRA1, UVRAG and PIK3C3/VPS34 and this interaction is not disrupted by starvation. It is expressed in brain, skeletal muscle, placenta, thymus and uterus and expression is lower in liver, testis, stomach, and 17-day-old embryos. Disruption of Beclin-2 is shown to reduce embryonic viability and heterozygous knockout mice show defects in autophagy, increased levels of Cnr1 receptor, elevated food intake, and obesity and insulin resistance.

Keywords

Becn2; Beclin-2; Beclin2

GENE INFORMATION

Entrez Gene ID

[226720](#)

UniProt ID

[P0DM65](#)
