



Anti-ATG12 (middle region) polyclonal antibody (CPBT-66084RA)

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

PRODUCT INFORMATION

Product Overview

Rabbit anti ATG12 (Internal Region) antibody recognizes human Autophagy-related protein 12 (ATG12). ATG12, a member of the autophagy protein family, forms a conjugate with ATG5; this conjugate has a ubiquitin-protein ligase (E3)-like activity for protein lipidation in autophagy. This conjugate also associates with innate immune response proteins such as RIG-I and VISA, inhibiting type I interferon production and permitting viral replication in host cells. ATG12 has also been shown to interact with ATG10 in human embryonic kidney cells in the presence of ATG7. There are at least two isoforms of ATG12.

Specificity	ATG12
Immunogen	Synthetic peptide corresponding to a 15 aa sequence from near the centre of human ATG12.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Conjugate	Unconjugated
Applications	IHC-P; WB
Format	Purified IgG - liquid
Size	100 µg
Preservative	0.02% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	ATG12 autophagy related 12 [Homo sapiens (human)]
Official Symbol	ATG12
Synonyms	ATG12; autophagy related 12; Apg12; FBR93; Apg12L; HAPG12; ubiquitin-like protein ATG12; Apg12 (autophagy, yeast) homolog; ATG12 autophagy related 12 homolog;
Entrez Gene ID	9140
Protein Refseq	NP_001264712
UniProt ID	Q2TBJ5
Chromosome Location	5q21-q22
Pathway	FoxO signaling pathway; Immune System; Innate Immune System; Negative regulators of RIG-I/MDA5 signaling; RIG-I-like receptor signaling pathway; RIG-I/MDA5 mediated induction of IFN-alpha/beta pathways; Regulation of autophagy; Senescence and Autophagy;
Function	Atg8 ligase activity; protein binding;