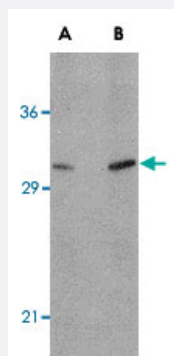


ATG12 polyclonal antibody

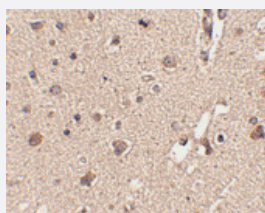
Catalog # PAB13321 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of ATG12 in human brain tissue lysate with ATG12 polyclonal antibody (Cat # PAB13321) at (A) 0.5, and (B) 1 ug/mL .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of ATG12 in human brain tissue with ATG12 polyclonal antibody (Cat # PAB13321) at 2.5 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ATG12.
Immunogen	A synthetic peptide corresponding to N-terminus 16 amino acids of human ATG12.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of ATG12 in human brain tissue lysate with ATG12 polyclonal antibody (Cat # PAB13321) at (A) 0.5, and (B) 1 ug/mL .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of ATG12 in human brain tissue with ATG12 polyclonal antibody (Cat # PAB13321) at 2.5 ug/mL .

Gene Info — ATG12

Entrez GeneID	9140
Protein Accession#	EAW48955
Gene Name	ATG12
Gene Alias	APG12, APG12L, FBR93, HAPG12
Gene Description	ATG12 autophagy related 12 homolog (S. cerevisiae)
Omim ID	609608
Gene Ontology	Hyperlink
Gene Summary	Autophagy is a process of bulk protein degradation in which cytoplasmic components, including organelles, are enclosed in double-membrane structures called autophagosomes and delivered to lysosomes or vacuoles for degradation. ATG12 is the human homolog of a yeast protein involved in autophagy (Mizushima et al., 1998 [PubMed 9852036]).[supplied by OMIM]
Other Designations	APG12 autophagy 12-like Apg12 (autophagy, yeast) homolog

Publication Reference

- [The Atg12-Atg5 conjugate has a novel E3-like activity for protein lipidation in autophagy.](#)

Hanada T, Noda NN, Satomi Y, Ichimura Y, Fujioka Y, Takao T, Inagaki F, Ohsumi Y.

The Journal of Biological Chemistry 2007 Dec; 282(52):37298.

Application: WB-Re, Recombinant protein

- [Autophagy as a cell death and tumor suppressor mechanism.](#)

Gozuacik D, Kimchi A.

Oncogene 2004 Apr; 23(16):2891.

- [Tor-mediated induction of autophagy via an Apg1 protein kinase complex.](#)

Kamada Y, Funakoshi T, Shintani T, Nagano K, Ohsumi M, Ohsumi Y.

Journal of Cellular Biology 2000 Sep; 150(6):1507.

Pathway

- [Regulation of autophagy](#)

Disease

- [Adenocarcinoma](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)
- [Microsatellite Instability](#)
- [Stomach Neoplasms](#)