Datasheet for ABIN497963

anti-ATG12 antibody (N-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	ATG12
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG12 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	A 16 amino acid peptide from near the amino terminus of Human ATG12.
Isotype:	IgG
Specificity:	Recognizes APG12/ATG12.
Purification:	Affinity Chromatography purified via peptide column.

Target Details

Target:	ATG12
Alternative Name:	ATG12 / APG12 (ATG12 Products)
Background:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-

Target Details

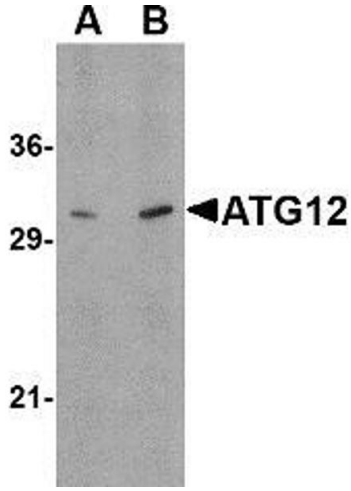
	lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1. ATG12, another 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 (also known as IPS-1), 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. At least two isoforms of ATG12 are known to exist.Synonyms: APG12-like, APG12L, Autophagy-related protein 12, Ubiquitin-like protein ATG12
Gene ID:	9140
NCBI Accession:	NP_004698
UniProt:	O94817
Pathways:	Autophagy

Application Details

Application Notes:	ELISA. Western Blot: ATG12 antibody can be used for the detection of ATG12 at 0.5-1 µg/mL. Immunohistochemistry on Paraffin Sections. Positive Control. Human Brain Tissue Lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

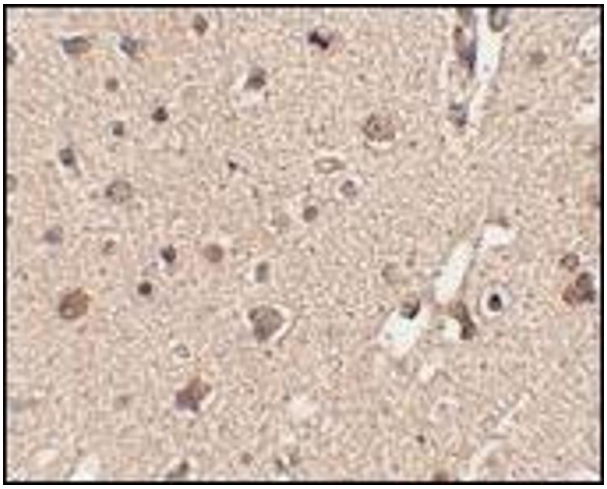
Handling

Buffer:	PBS containing 0.02 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C. Antibodies should not be exposed to prolonged high temperatures.



Western Blotting

Image 1. Western blot: ATG12 antibody staining of Human brain tissue lysate at (A) 0.5 and (B) 1 µg/ml.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry: ATG12 antibody staining of Human brain tissue at 2.5 µg/ml.