Datasheet for ABIN497964

# anti-ATG12 antibody (Middle Region)

2 Images

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## Overview

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|---|---|
| Quantity: | 0.1 mg |
| Target: | ATG12 |
| Binding Specificity: | Middle Region |
| 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

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| Immunogen: | A 15 amino acid peptide from near the center of Human ATG12 |
| Isotype: | IgG |
| Specificity: | Recognizes APG12/ATG12. |
| Cross-Reactivity (Details): | Species reactivity (tested):Human, Mouse and Rat |
| Purification: | Affinity Chromatography purified via peptide column |

## Target Details

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|---|---|
| Target: | ATG12 |
| Alternative Name: | ATG12 / APG12 (ATG12 Products) |

## Target Details

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| Background: | Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-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

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| Application Notes: | Other applications not tested.<br>Optimal dilutions are dependent on conditions and should be determined by the user. |
| Restrictions: | For Research Use only |

## Handling

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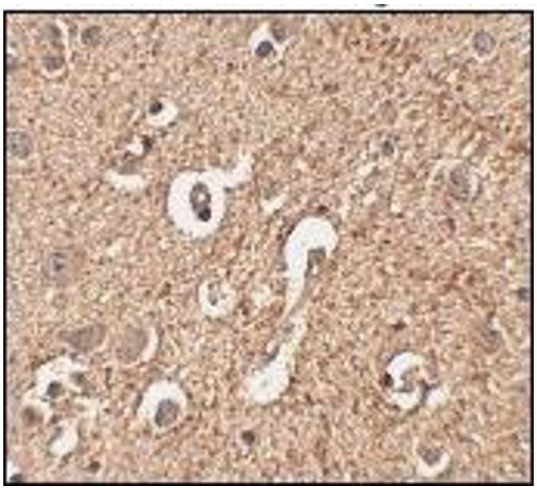
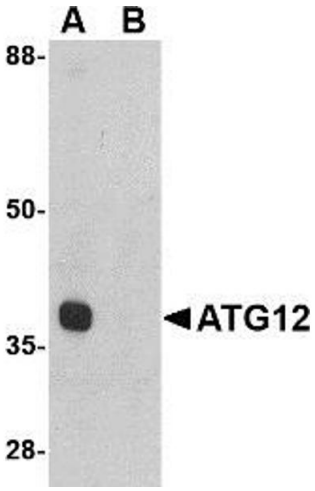
| Buffer: | PBS containing 0.02 % Sodium Azide as preservative |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Store the antibody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



## Immunohistochemistry (Paraffin-embedded Sections)

**Image 1. Immunohistochemistry:** ATG12 antibody staining of Human brain tissue at 2.5 µg/ml.




## Western Blotting

**Image 2. Western blot.** ATG12 antibody staining of Mouse heart tissue lysate at 1 µg/ml. A: Absence of Blocking peptide B: Presence of Blocking peptide