

ATG7 antibody

Catalog No: #AB38148

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Description

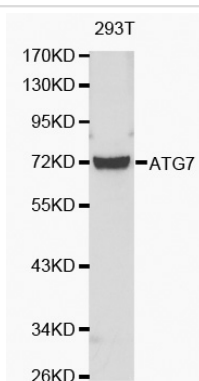
Product Name	ATG7 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total ATG7 antibody.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human ATG7.
Target Name	ATG7
Other Names	ATG7;APG7-LIKE;APG7L;DKFZp434N0735;GSA7;
Accession No.	Swiss-Prot#: O95352NCBI Gene ID: 10533
SDS-PAGE MW	78kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

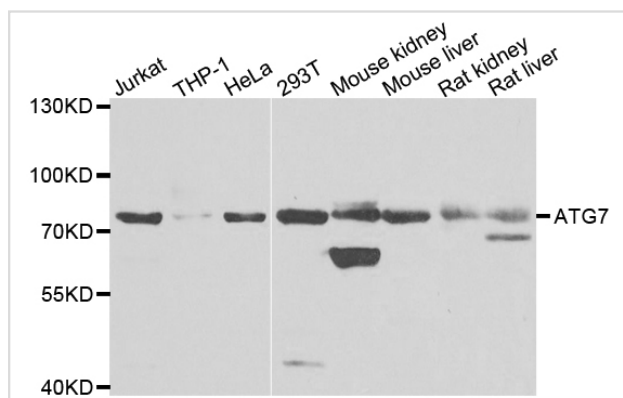
Western blotting: 1:500 - 1:2000

Immunohistochemistry: 1:50 - 1:200

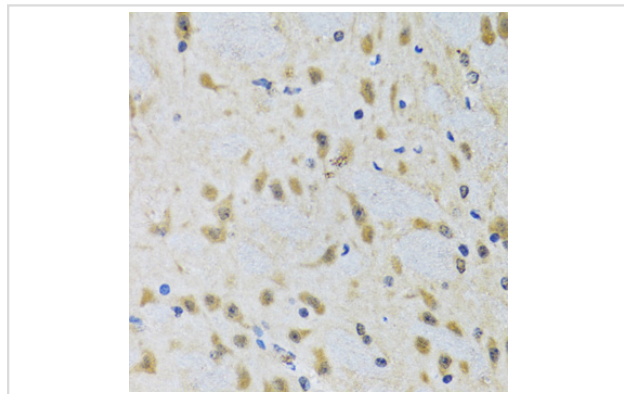
Images



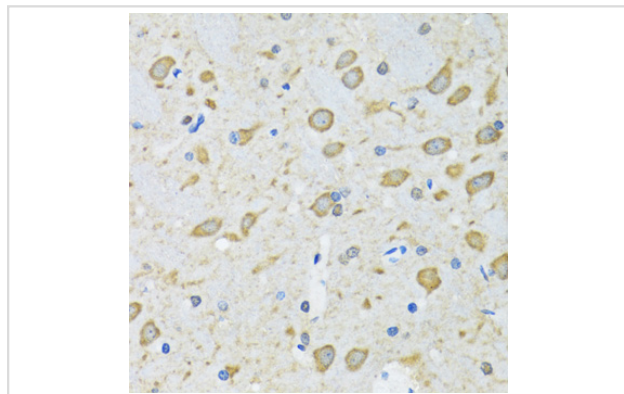
Western blot analysis of 293T cell lysate using ATG7 antibody.



Western blot analysis of various cell lines lysates using ATG7 antibody.



Immunohistochemistry of paraffin-embedded rat brain tissue using ATG7 antibody at dilution of 1:100 (x40 lens).



Immunohistochemistry of paraffin-embedded mouse brain tissue using ATG7 antibody at dilution of 1:100 (x40 lens).

Background

Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents (1,2). Autophagy is generally activated by conditions of nutrient deprivation but has also been associated with a number of physiological processes including development, differentiation, neurodegeneration, infection, and cancer (3). The molecular machinery of autophagy was largely discovered in yeast and referred to as autophagy-related (Atg) genes. Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5 and targeted to autophagosome vesicles (4-6). This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10 (7,8).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.