

ATG4B Antibody

Catalog No: #34136

Package Size: #34136-1 50ul #34136-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

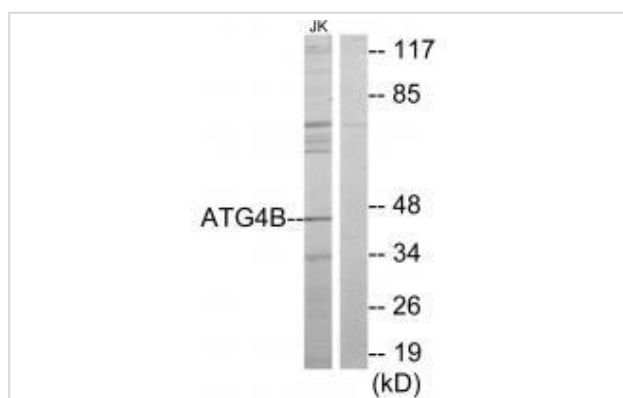
Product Name	ATG4B Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total ATG4B protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human ATG4B.
Target Name	ATG4B
Other Names	Cysteine protease ATG4B; EC 3.4.22.-; Autophagy-related protein 4 homolog B; hAPG4B; Autophagin-1
Accession No.	Swiss-Prot: Q9Y4P1NCBI Gene ID: 23192
Uniprot	Q9Y4P1
GeneID	23192;
SDS-PAGE MW	44kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG 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: 1:500~1:3000

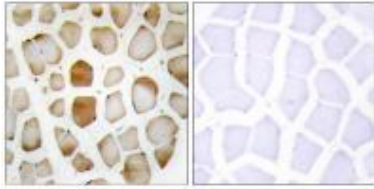
Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Jurkat cells, using ATG4B antibody #34136.

Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue using ATG4B antibody #34136.



Background

Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3, GABARAPL1, GABARAPL2 and GABARAP, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms.

Kabeya Y., J. Cell Sci. 117:2805-2812(2004).

Marino G., J. Biol. Chem. 278:3671-3678(2003).

Ota T., Nat. Genet. 36:40-45(2004).

Note: This product is for in vitro research use only