

ATG4D Antibody

Catalog No: #34633

Package Size: #34633-1 50ul #34633-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

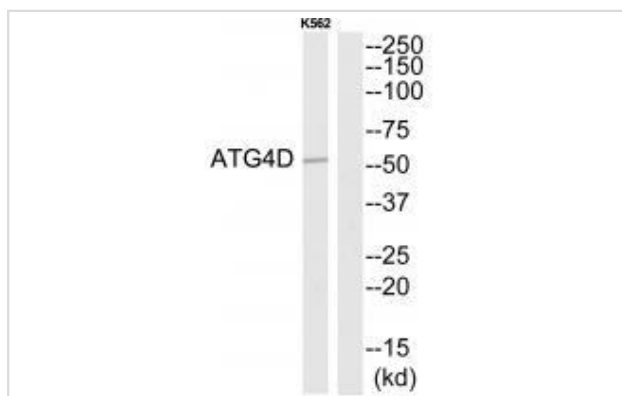
Description

Product Name	ATG4D Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total ATG4Dprotein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from N-terminal of human ATG4D.
Target Name	ATG4D
Other Names	APG4 autophagy 4 homolog D; APG4-D; APG4D; ATG4 autophagy related 4 homolog D (S. cerevisiae); ATG4D
Accession No.	Swiss-Prot: Q86TL0NCBI Gene ID: 84971
Uniprot	Q86TL0
GeneID	84971;
SDS-PAGE MW	53kd
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

Images



Western blot analysis of extracts from K562 cells, using ATG4D antibody #34633.

Background

Cysteine protease ATG4D: Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, 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. ysteine protease ATG4D, mitochondrial: Plays a role as an autophagy regulator that links mitochondrial dysfunction with apoptosis. The mitochondrial import of ATG4D during cellular stress and differentiation may play important roles in the regulation of mitochondrial physiology, ROS, mitophagy and cell viability.

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

The MGC Project Team, Genome Res. 14:2121-2127(2004).

Note: This product is for in vitro research use only