

Datasheet for ABIN7090776
anti-ATG4D antibody



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Overview

Quantity:	100 µL
Target:	ATG4D
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ATG4D antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant human ATG4D.
Clone:	A12F4
Predicted Reactivity:	Human

Target Details

Target:	ATG4D
Alternative Name:	ATG4D (ATG4D Products)
Background:	Synonyms: 9830134P12Rik, APG4 autophagy 4 homolog D, APG4 D, APG4, S. cerevisiae, homolog of, D, APG4D, ATG4 autophagy related 4 homolog D (S. cerevisiae), ATG4D_HUMAN, Atg4dl, AUT like 4 cysteine endopeptidase, AUT-like 4 cysteine endopeptidase, AUTL4, Autophagin 4, Autophagin-4, autophagy 4, S. cerevisiae, homolog of, D, autophagy related 4D, cysteine peptidase, Autophagy related cysteine endopeptidase 4, Autophagy related protein 4

Target Details

homolog D, Autophagy-related cysteine endopeptidase 4, Autophagy-related protein 4 homolog D, Cysteine protease ATG4D, Cysteine protease involved in autophagy, MGC31226.

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.

Cysteine 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.

Gene ID: 84971

UniProt: [Q86TL0](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: WB 1:300-5000
IF()

Restrictions: For Research Use only

Handling

Concentration: 0.5 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months