



Atg4D Monoclonal Antibody

Catalog No	YP-mAb-02505
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ATG4D
Immunogen	Synthesized peptide derived from the Internal region of human Atg4D.
Specificity	Atg4D Monoclonal Antibody detects endogenous levels of Atg4D protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AUT-like 4 cysteine endopeptidase;AUTL4;ATG;APG4D;APG4 D;Atg4D; Cysteine protease ATG4D;Autophagin-4;Autophagy-related cysteine endopeptidase 4;Autophagy-related protein 4 homolog D
Observed Band	45kD
Calculated Molecular Weight	45kD
Cell Pathway	[Cysteine protease ATG4D]: Cytoplasm .; [Cysteine protease ATG4D, mitochondrial]: Cytoplasm . Mitochondrion matrix . Imported into mitochondrial matrix after cleavage by CASP3 during oxidative stress and cell death. .
Tissue Specificity	Widely expressed in testis.
Function	enzyme regulation:Inhibited by N-ethylmaleimide.,function:Cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes., similarity:Belongs to the peptidase C54 family.,tissue specificity:Mainly expressed in skeletal muscle and, to a lower extent, in testis.,



Background

Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene belongs to the autophagy-related protein 4 (Atg4) family of C54 endopeptidases. Members of this family encode proteins that play a role in the biogenesis of autophagosomes, which sequester the cytosol and organelles for degradation by lysosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013],

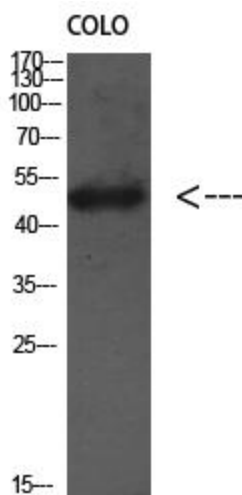
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Atg4D Monoclonal Antibody