Datasheet for ABIN1882161

anti-ATG4D antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	ATG4D
Binding Specificity:	AA 14-43, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4D antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATG4D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-43 amino acids from the N-terminal region of human ATG4D.
Clone:	RB7563
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ATG4D
Alternative Name:	ATG4D (ATG4D Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic

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Target Details

	constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). APG4 is a 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.
Molecular Weight:	52922
NCBI Accession:	NP_001268433, NP_116274
UniProt:	Q86TL0
Pathways:	Autophagy

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Wendeler, Pabst, Wang, Strouse, Wang, Hunter: "Process-scale purification and analytical

Publications

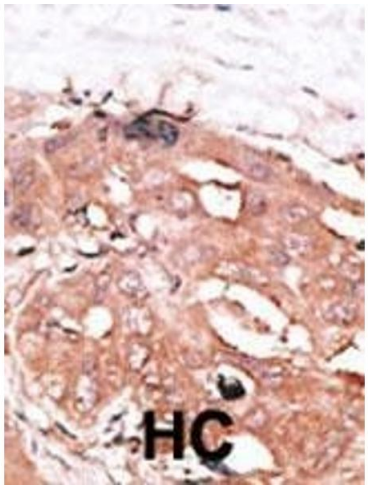
characterization of highly gamma-carboxylated recombinant human prothrombin." in: **Journal of chromatography. A**, Vol. 1325, pp. 171-8, (2014) (PubMed).

Yang, Ko, Yang, Kim, Seo, Park, Choi, Seong, Kweon: "Interleukin-1 promotes coagulation, which is necessary for protective immunity in the lung against Streptococcus pneumoniae infection." in: **The Journal of infectious diseases**, Vol. 207, Issue 1, pp. 50-60, (2012) (PubMed).

Lim, Joy, Hill, San Brian Chia: "Novel agmatine and agmatine-like peptidomimetic inhibitors of the West Nile virus NS2B/NS3 serine protease." in: **European journal of medicinal chemistry**, Vol. 46, Issue 7, pp. 3130-4, (2011) (PubMed).

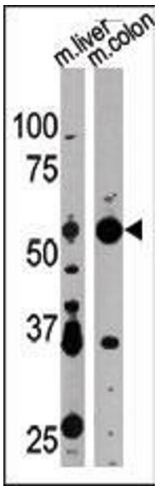
There are more publications referencing this product on: Product page

Images



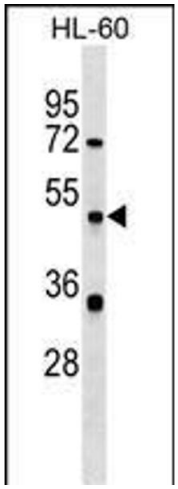
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of anti-G4D Pab 1811a in mouse liver and colon tissue lysate. G4D (arrow) was detected using the purified Pab.



Western Blotting

Image 3. G4D Antibody (N-term) 1811a western blot analysis in HL-60 cell line lysates (35 µg/lane).This demonstrates the G4D antibody detected the G4D protein (arrow).

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