Datasheet for ABIN6143467

anti-LC3B antibody (AA 1-121)

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Overview

Quantity:	100 µL
Target:	LC3B (MAP1LC3B)
Binding Specificity:	AA 1-121
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LC3B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-121 of human LC3A (NP_115903.1).
Sequence:	MPSDRPFKQR RSFADRCKEV QQIRDQHPSK IPVIIERYKG EKQLPVLDKT KFLVPDHVNM SELVKIIRRR LQLNPTQAFF LLVNQHSMVS VSTPIADIYE QEKDEDGFLY MVYASQETFG F
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	LC3B (MAP1LC3B)
Alternative Name:	MAP1LC3A/MAP1LC3B (MAP1LC3B Products)
Background:	MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. The protein encoded by this gene is one of the light chain subunits and can associate with either MAP1A or MAP1B. Two transcript variants encoding different isoforms have been found for this gene. The expression of variant 1 is suppressed in many tumor cell lines, suggesting that may be involved in carcinogenesis.,MAP1LC3B,ATG8F,LC3B,MAP1A/1BLC3,MAP1LC3B-a,MAP1LC3A,ATG8E,LC3,LC3A,MAP1ALC3,MAP1BLC3,LC3A/LC3B,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Autophagy,Cytoskeleton,Microtubules,Endocrine & Metabolism,Mitochondrial metabolism,Cardiovascular,Heart,ATGs,MAP1LC3A/MAP1LC3B
Molecular Weight:	14 kDa
Gene ID:	84557, 81631
UniProt:	Q9GZQ8, Q9H492
Pathways:	Autophagy

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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:	-20 °C

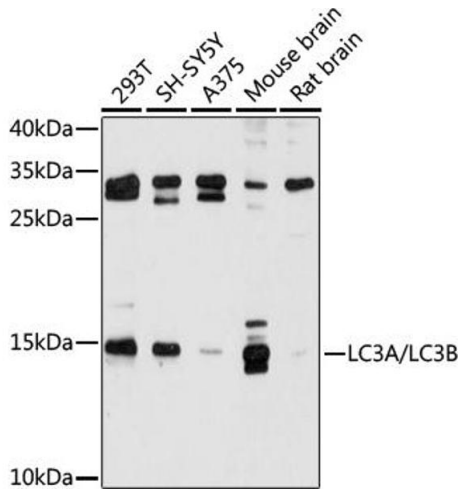
Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in:	Li, Zhao, Wang, Shao, Wang, Wang, Xing: "Regulation of autophagy factors by oxidative stress and cardiac enzymes imbalance during arsenic or/and copper induced cardiotoxicity in Gallus gallus." in: **Ecotoxicology and environmental safety**, Vol. 148, pp. 125-134, (2018) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using LC3A/LC3B antibody (ABIN6129923, ABIN6143467, ABIN6143469 and ABIN6221253) at 1:500 dilution.293T cells were treated by Chloroquine (50 μM) at 37 °C for 20 hours.NIH/3T3 cells were treated by Chloroquine (50 μM) at 37 °C for 20 hours.C6 cells were treated by Chloroquine (50 μM) at 37 °C for 20 hours.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 μg per lane.Blocking buffer: 3 % BSA.Detection: ECL Enhanced Kit (RM00021).Exposure time: 3 min.