Datasheet for ABIN389913

anti-LC3B antibody (pThr12)

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Overview

Quantity:	400 µL
Target:	LC3B (MAP1LC3B)
Binding Specificity:	pThr12
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LC3B antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This LC3B Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T12 of human LC3B.
Clone:	RB12679
Isotype:	Ig Fraction
Predicted Reactivity:	B
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	LC3B (MAP1LC3B)
Alternative Name:	LC3B (MAP1LC3B Products)

Target Details

Background:	MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3b is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/ATG4B to form the cytosolic form, LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II. Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic 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).
Molecular Weight:	14688
Gene ID:	81631
NCBI Accession:	NP_073729
UniProt:	Q9GZQ8
Pathways:	Autophagy

Application Details

Application Notes:	DB: 1:500
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

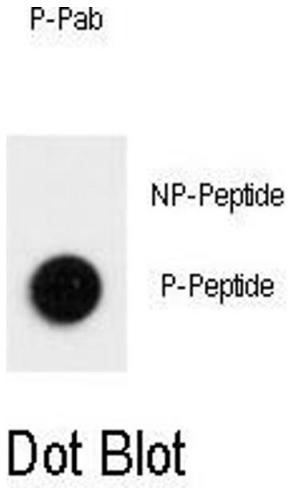
Handling

Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Curioni-Fontecedro, Knights, Tinguely, Nuber, Schneider, Thomson, von Boehmer, Bossart, Pahlich, Gehring, Moch, Renner, Knuth, Zippelius: "MAGE-C1/CT7 is the dominant cancer-testis antigen targeted by humoral immune responses in patients with multiple myeloma." in: **Leukemia**, Vol. 22, Issue 8, pp. 1646-8, (2008) (PubMed). Dubovsky, Albertini, McNeel: "MAD-CT-2 identified as a novel melanoma cancer-testis antigen using phage immunoblot analysis." in: **Journal of immunotherapy (Hagerstown, Md. : 1997)**, Vol. 30, Issue 7, pp. 675-83, (2007) (PubMed). Kondo, Zhu, Asa, Ezzat: "The cancer/testis antigen melanoma-associated antigen-A3/A6 is a novel target of fibroblast growth factor receptor 2-IIIb through histone H3 modifications in thyroid cancer." in: **Clinical cancer research : an official journal of the American Association for Cancer Research**, Vol. 13, Issue 16, pp. 4713-20, (2007) (PubMed).

Images



Dot Blot

Image 1. Dot blot analysis of Phospho-LC3 (G8b)- T12 Antibody 3530a on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 µg per ml.