

6688

LC3B (D11) XP[®] Rabbit mAb (PE Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9GZQ8	Entrez-Gene Id: 81631
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.			
Specificity/Sensitivity		LC3B (D11) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total LC3B protein. Cross-reactivity may occur with other LC3 isoforms. Stronger reactivity is observed with the type II form of LC3B. Weaker reactivity is observed with rodent LC3B.			
Species predicte based on 100% s homology	d to react sequence	Mouse, Rat, Monkey, Bo	vine, Pig		
Source / Purifica	ition	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of LC3B protein.			
Description This Cell Signaling Technology antibody is conjugated to ph direct flow cytometry analysis in human cells. The antibody cross-reactivity as the unconjugated LC3B (D11) XP [®] Rabbit				antibody is expecte	d to exhibit the same species
Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytor contents (1,2). Autophagy is generally activated by conditions of nutrient deprivation, but it has been associated with a number of physiological processes including development, differentian neurodegenerative diseases, infection, and cancer (3). Autophagy marker Light Chain 3 (LC3) originally identified as a subunit of microtubule-associated proteins 1A and 1B (termed MAP1 and subsequently found to contain similarity to the yeast protein Apg8/Aut7/Cvt5 critical for a (5). Three human LC3 isoforms (LC3A, LC3B, and LC3C) undergo posttranslational modification autophagy (6-9). Cleavage of LC3 at the carboxy terminus immediately following synthesis yie cytosolic LC3-I form. During autophagy, LC3-I is converted to LC3-II through lipidation by a ub like system involving Atg7 and Atg3 that allows for LC3 to become associated with autophagic (6-10). The presence of LC3 in autophagosomes and the conversion of LC3 to the lower migratic LC3-II, have been used as indicators of autophagy (11).					ent deprivation, but it has also levelopment, differentiation, rker Light Chain 3 (LC3) was A and 1B (termed MAP1LC3) (4) 8/Aut7/Cvt5 critical for autophagy ranslational modifications during y following synthesis yields the rough lipidation by a ubiquitinociated with autophagic vesicles
Background References		 Reggiori, F. and Klionsky, D.J. (2002) Eukaryot. Cell 1, 11-21. Codogno, P. and Meijer, A.J. (2005) Cell Death Differ. 12 Suppl 2, 1509-18. Levine, B. and Yuan, J. (2005) J. Clin. Invest. 115, 2679-88. Mann, S.S. and Hammarback, J.A. (1994) J. Biol. Chem. 269, 11492-97. Lang, T. et al. (1998) EMBO J. 17, 3597-607. Kabeya, Y. et al. (2000) EMBO J. 19, 5720-28. He, H. et al. (2003) J. Biol. Chem. 278, 29278-87. Tanida, I. et al. (2004) J. Biol. Chem. 279, 47704-10. Wu, J. et al. (2006) Biochem. Biophys. Res. Commun. 339, 437-42. Ichimura, Y. et al. (2000) Nature 408, 488-92. Kabeya, Y. et al. (2004) J. Cell Sci. 117, 2805-12. 			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.