

LC3B Polyclonal Antibody, DyLight™ 650

Catalog NumberPA5-22710

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Bovine, Dog, Chicken, Guinea pig, Hamster, Human, Invertebrate, Mouse, Non-human primate, Pig, Rabbit, Reptile, Rat, Zebrafish, Avian, Bacteria
Host/Isotope	Rabbit / IgG		
Class	Polyclonal		
Type	Antibody		
Immunogen	A synthetic peptide made to an N-terminal portion of the human LC3 protein sequence (between residues 1-100).	<div>Tested ApplicationsDilution *</div>	
Conjugate	DyLight™ 650		
Form	Liquid	ELISA (ELISA)	Assay-Dependent
Concentration	0.74 mg/mL	Flow Cytometry (Flow)	Assay-Dependent
Purification	Antigen affinity chromatography	Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent
Storage buffer	50mM sodium borate	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:400
Contains	0.05% sodium azide	Western Blot (WB)	2 µg/mL
Storage Conditions	4° C, store in dark	Immunocytochemistry (ICC/IF)	Assay-Dependent
* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.			

Product specific information

This antibody has 92% homology with mouse, 91% with bovine, and 84% with xenopus. Reacts weaker with mouse than with human samples

Background/Target Information

LC3B (Autophagy Marker Light Chain 3B, MAP1A/MAP1B LC3 B) in humans, is encoded by the gene MAP1LC3B (Microtubule-associated proteins 1A /1B light chain 3B). LC3B is associated with microtubule assembly and important is in neurogenesis. Recent studies indicate that LC3B plays a vital role in autophagy, a process that involves the bulk degradation of cytoplasmic component. Three human LC3 isoforms undergo post-translational modifications during autophagy. 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). LC3B is a microtubule-associated protein that mediate the physical interactions between microtubules and components of the cytoskeleton. LC3B may play a role in processes involving cancer, aging, metabolic and neurodegenerative disorders and cardiovascular/pulmonary diseases.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.