

Catalog No. BN40816R

Rabbit Anti-LC3 Polyclonal Antibody

## DATASHEET

**Host:**Rabbit**Target Protein:**LC3**IR:**Immunogen Range:1-100/121**Clonality:**Polyclonal**Isotype:**IgG**Entrez Gene:**[84557](#)**Swiss Prot:**[Q9H492](#)**Source:**KLH conjugated synthetic peptide derived from human LC3:1-100/121**Purification:**affinity purified by Protein A**Storage:**0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Background:**A major contributor to cellular homeostasis is the ability of the cell to strike a balance between the formation and degradation/removal of its cellular components. This process of internal cellular turn-over is called autophagy (self-eating), and is facilitated by a pathway of around 16 interacting proteins in the human. LC3, a ubiquitin-like modifier protein, is the human homolog of yeast Apg8 and is involved in the formation of autophagosomal vacuoles, called autophagosomes. LC3 is expressed as 3 splice variants (LC3A, LC3B and LC3C), which exhibit different tissue distributions and are processed into cytosolic and autophagosomal membrane-bound forms, termed LC3-I and LC3-II, respectively. A disruption to the autophagic process is now associated with the progression of several cancers, neurodegenerative disorders and cardiac pathologies, where LC3 is widely employed as a marker for autophagy.

**Size:**200ul**Concentration:**1mg/ml**Applications:**WB(1:500-2000)**Cross Reactive Species:**Human

Mouse

Rat

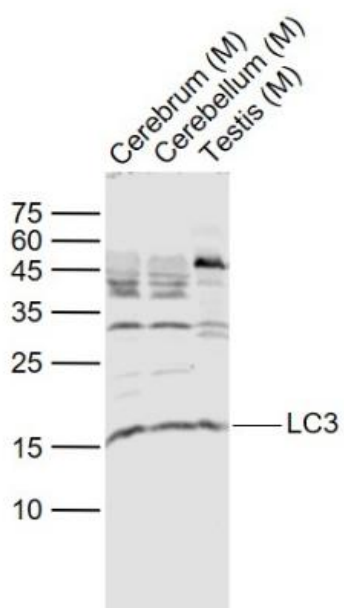
Pig

Cow

Horse

For research use only. Not intended for diagnostic or therapeutic use.

VALIDATION IMAGES



Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 ug

Lane 2: Cerebellum (Mouse) Lysate at 40 ug

Lane 3: Testis (Mouse) Lysate at 40 ug

Primary: Anti-LC3 at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17/14 kD

Observed band size: 17 kD