For Research Use Only. Not for use in diagnostic procedures.



Anti-LC3 mAb

CODE No. M186-3

CLONALITY Monoclonal 8E10

 $\begin{array}{ll} \textbf{ISOTYPE} & \text{Mouse IgG2a } \kappa \\ \textbf{QUANTITY} & 100 \ \mu\text{L}, \ 1 \ \text{mg/mL} \end{array}$

SOURCE Purified IgG from hybridoma supernatant

IMMUNOGEN Human LC3 (MAP1LC3B), 1-120 aa (recombinant)

REACTIVITY This clone reacts with LC3B and does not cross-react with LC3A, LC3C, GATE-16 and

GABARAP

FORMULATION 1 mg/mL in PBS containing 50% Glycerol (pH 7.2). No preservative is contained.

STORAGE This antibody solution is stable for one year from the date of purchase when stored at -20°C.

APPLICATIONS-CONFIRMED

Western blotting 1 μg/mL

<u>Immunohistochemistry</u> Not recommended <u>Immunocytochemistry</u> Not recommended

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Cells	HeLa	NIH/3T3, MEF, Atg5 ^{-/-} MEF Brain	PC12	СНО
Reactivity	+	+	+	+

Entrez Gene ID 81631 (Human), 67443 (Mouse), 64862 (Rat)

For more information, please visit our web site https://ruo.mbl.co.jp/.

SDS-PAGE & Western blotting

- 1) Wash 1 x 10⁷ cells 3 times with PBS and suspends them in 1 mL of Laemmli's sample buffer, then sonicate briefly (up to 10sec.).
- 2) Boil the samples for 3 min. and centrifuge. Load 10 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (15% acrylamide) for electrophoresis.
- 3) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm² for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% methanol). See the manufacturer's manual for precise transfer procedure.
- 4) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) overnight at 4°C.
- 5) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3).
- 6) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS, pH 7.2) as suggested in the **APPLICATIONS** for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 7) Wash the membrane with PBS-T (5 min. x 3).
- 8) Incubate the membrane with the 1:10,000 anti-IgG (Mouse) pAb-HRP (MBL; code no. 330) diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hr. at room temperature.
- 9) Wash the membrane with PBS-T (5 min. x 3).
- 10) Wipe excess buffer on the membrane, and then incubate it with appropriate chemiluminescence reagent for 1 min. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 11) Expose to an X-ray film in a dark room for 1 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive controls for Western blotting; HeLa, NIH/3T3, PC12, CHO, mouse brain tissue, MEF, Atg5-/- MEF)

