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

Anti-Atg8 (Filamentous fungi) pAb

CODE No. PM090

CLONALITY Polyclonal
ISOTYPE Rabbit Ig, affinity purified
QUANTITY 100 μL

SOURCE Purified Ig from rabbit serum
IMMUNOGEN Recombinant protein, corresponding to amino acids 1-116 of rice blast fungus MGG_01062 (Atg8)
FORMULATION 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.

APPLICATION-CONFIRMED
Western blotting 1:1,000 for chemiluminescence detection system

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Filamentous fungi
Sample	Not tested	Not tested	Not tested	*Aspergillus oryzae* strain NSRku70-1-1A
Reactivity				+

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

MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.
URL http://ruo.mbl.co.jp/
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RELATED PRODUCTS

Antibodies

PM036	Anti-LC3 pAb [WB, IP, IC, IHC, FCM]
M152-3	Anti-LC3 mAb (4E12) [WB, IP, IC, FCM, EM]
M186-3	Anti-LC3 mAb (8E10) [WB]
M186-7	Anti-LC3 mAb-HRP-DirecT (8E10)
PD015	Anti-LC3 pAb [IC]
PM045	Anti-p62 (SQSTM1) pAb
PM066	Anti-p62 C-terminal pAb
PM066-7	Anti-p62 C-terminal pAb-HRP-DirecT
M162-3	Anti-p62 (SQSTM1) (Human) mAb (5F2)
PM074	Anti-Phospho-p62 (SQSTM1) (Ser351) pAb
M217-3	Anti-Phospho-p62 (SQSTM1) (Ser351) mAb (5D5)
D343-3	Anti-Phospho-p62 (SQSTM1) (Ser403) mAb (4F6)
D344-3	Anti-Phospho-p62 (SQSTM1) (Ser403) mAb (4C8)
PD017	Anti-Beclin 1 pAb
PM037	Anti-GABARAP pAb
M135-3	Anti-GABARAP mAb (1F4)
PM038	Anti-GATE-16 pAb
PD041	Anti-Atg2A pAb
PM034	Anti-Atg3 pAb
M133-3	Anti-Atg3 mAb (3E8)
M134-3	Anti-Atg4B mAb (9H5)
PM050	Anti-Atg5 pAb
M153-3	Anti-Atg5 mAb (4D3)
PM039	Anti-Atg7 (Human) pAb
PD042	Anti-Atg9A pAb
M151-3	Anti-Atg10 (Human) mAb (5A7)
M154-3	Anti-Atg12 (Human) mAb (6E5)
PD036	Anti-Atg13 (Human) pAb
M183-3	Anti-Atg13 mAb (5G4)
PD026	Anti-Atg14 pAb
M184-3	Anti-Atg14 (Human) mAb (4H8)
PM040	Anti-Atg16L pAb
M150-3	Anti-Atg16L mAb (1F12)
M160-3	Anti-UVRAG mAb (1H4)
PD027	Anti-Rubicon (Human) pAb
M170-3	Anti-Rubicon (Human) mAb (1H6)
PD037	Anti-Tel2 pAb
PM069	Anti-NRF2 pAb
M200-3	Anti-NRF2 mAb (1F2)
PM072	Anti-VMP1 pAb
PM076	Anti-Syntaxin-17 (Human) pAb
M212-3	Anti-Syntaxin-17 (Human) mAb (2F8)

Kits

8485	Autophagy Ab Sampler Set
8486	Autophagy Watch
CY-7055	CycLex® Total p62 ELISA Kit
CY-7056	CycLex® Phospho-p62 Ser349 ELISA Kit
CY-7057	CycLex® Phospho-p62 Ser403 ELISA Kit
PM036-PN	Positive control for anti-LC3 antibody

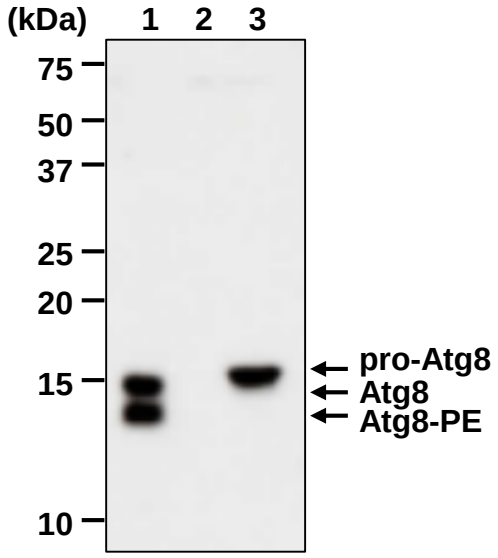
WB: Western blotting
IP: Immunoprecipitation
IC: Immunocytochemistry
IHC: Immunohistochemistry
FCM: Flow cytometry
EM: Immuno-electron microscopy

Other related antibodies and kits are also available.
Please visit our website at http://ruo.mbl.co.jp/

SDS-PAGE & Western blotting

1) Boil the samples for 2 min. and centrifuge.
2) Load 4 μL (10 μg) 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/cm^2 for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacturer's manual for precise transfer procedure.
4) To reduce nonspecific binding, soak the membrane in 5% skimmed milk (in PBS, pH 7.2) for 2 hr. at room temperature.
5) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3 times).
6) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS, pH 7.2) as suggested in the **APPLICATIONS** overnight at 4°C. (The concentration of antibody will depend on the conditions.)
7) Wash the membrane with PBS-T (5 min. x 3 times).
8) Incubate the membrane with 1:10,000 of Anti-IgG (Rabbit) pAb-HRP (MBL; code no. 458) 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 times).
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 40 sec. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Western blotting; *Aspergillus oryzae* strain NSRku70-1-1A)



Western blot analysis of Aspergillus oryzae Atg8

Lane 1: WT (NSRku70-1-1A)
Lane 2: Disrupted Atg8
Lane 3: Disrupted Atg4

Immunoblotted with Anti-Atg8 (Filamentous fungi) pAb (PM090)

The samples were kindly provided by Dr. Takashi Kikuma.
(The University of Tokyo, Graduate School of Agricultural and Life Sciences Department of Biotechnology)