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

My select sampler set

Anti-Syntaxin-17 (Human) mAb

CODE No. M212-3MS

CLONALITY Monoclonal
CLONE 2F8
ISOTYPE Mouse IgG2a κ
QUANTITY 20 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
IMMUNOGEN Human Syntaxin-17, recombinant protein
FORMURATION 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 for chemiluminescence detection system
Immunoprecipitation	2 µg/sample
Immunocytochemistry	Not recommended

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Cells	Jurkat, A549, HeLa	NIH/3T3	PC12	CHO
Reactivity	+	-	-	-

Entrez Gene ID 55014 (Human)

REFERENCES

1) Hamasaki, M., *et al., Nature* **495**, 389-393 (2013)
2) Itakura, E., *et al., Cell* **151**, 1256–1269 (2012)

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RELATED PRODUCTS

Antibodies

M212-3	Anti-Syntaxin-17 (Human) mAb (2F8)
PM076	Anti-Syntaxin-17 (Human) pAb
K0117-3	Anti-Syntaxin-1 mAb (HPC-1)
K0118-3	Anti-Syntaxin-6 mAb (3D10)
K0119-3	Anti-Syntaxin-7 (Human) mAb (Syn7.1C3)
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)
PD014	Anti-LC3 pAb [WB]
PM045	Anti-p62 (SQSTM1) pAb
M162-3	Anti-p62 (SQSTM1) (Human) mAb (5F2)
M162-A48	Anti-p62 (SQSTM1) (Human) mAb -Alexa Fluor® 488 (5F2)
M162-A59	Anti-p62 (SQSTM1) (Human) mAb -Alexa Fluor® 594 (5F2)
M162-A64	Anti-p62 (SQSTM1) (Human) mAb -Alexa Fluor® 647 (5F2)
PM066	Anti-p62 C-terminal pAb
PM066-7	Anti-p62 C-terminal pAb-HRP-DirecT
D343-3	Anti-Phospho-p62 (SQSTM1) (Ser403) mAb (4F6)
D344-3	Anti-Phospho-p62 (SQSTM1) (Ser403) mAb (4C8)
PM074	Anti-Phospho-p62 (SQSTM1) (Ser351) pAb
M217-3	Anti-Phospho-p62 (SQSTM1) (Ser351) mAb (5D5)
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)
PM069	Anti-NRF2 pAb
M200-3	Anti-NRF2 mAb (1F2)
PD037	Anti-Tel2 pAb
PM072	Anti-VMP1 pAb
M175-3	Anti-α-Tubulin mAb (2F9)
M175-A48	Anti-α-Tubulin mAb-Alexa Fluor® 488 (2F9)
M175-A59	Anti-α-Tubulin mAb-Alexa Fluor® 594 (2F9)
M175-A64	Anti-α-Tubulin mAb-Alexa Fluor® 647 (2F9)
PM054	Anti-α-Tubulin pAb
PM054-7	Anti-α-Tubulin pAb-HRP-DirecT
M176-3	Anti-EEA1 mAb (3C10)
M176-A48	Anti-EEA1 mAb-Alexa Fluor® 488 (3C10)
M176-A59	Anti-EEA1 mAb-Alexa Fluor® 594 (3C10)
M176-A64	Anti-EEA1 mAb-Alexa Fluor® 647 (3C10)
PM062	Anti-EEA1 pAb
M178-3	Anti-Calnexin mAb (4F10)
M178-A48	Anti-Calnexin mAb-Alexa Fluor® 488 (4F10)
M178-A59	Anti-Calnexin mAb-Alexa Fluor® 594 (4F10)
M178-A64	Anti-Calnexin mAb-Alexa Fluor® 647 (4F10)
PM060	Anti-Calnexin pAb
M181-3	Anti-KDEL mAb (1D5)
PM059	Anti-KDEL pAb
M179-3	Anti-GM130 mAb (5G8)
M179-A48	Anti-GM130 mAb-Alexa Fluor® 488 (5G8)
M179-A59	Anti-GM130 mAb-Alexa Fluor® 594 (5G8)
M179-A64	Anti-GM130 mAb-Alexa Fluor® 647 (5G8)
PM061	Anti-GM130 pAb
PM063	Anti-COX4 pAb
PM064	Anti-Lamin B1 pAb

Kits

8485	Autophagy Ab Sampler Set
PM036-PN	Positive control for anti-LC3 antibody

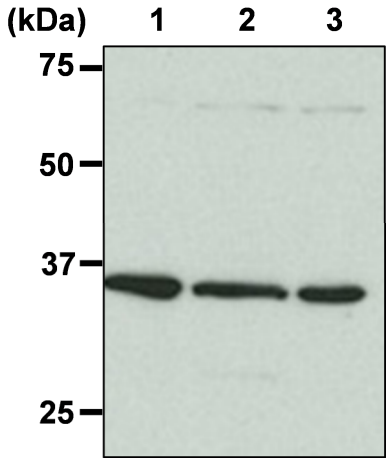
WB: Western blotting
IP: Immunoprecipitation
IC: Immunocytochemistry
IHC: Immunohistochemistry
FCM: Flow cytometry
EM: Immuno-electron microscopy

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

SDS-PAGE & Western blotting

1) Wash 1 x 10^7 cells 3 times with PBS and suspend with 1 mL of Laemmli's sample buffer, then sonicate briefly (up to 20 sec.)
2) Centrifuge the tube at 12,000 x g for 5 min. at 4°C and transfer the supernatant to another tube.
3) Boil the samples for 3 min. and centrifuge. Load 10 µL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) for electrophoresis.
4) 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.
5) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) overnight at 4°C.
6) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3 times).
7) 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.)
8) Wash the membrane with PBS-T (5 min. x 3 times).
9) 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.
10) Wash the membrane with PBS-T (5 min. x 3 times)
11) Wipe excess buffer on the membrane, 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.
12) Expose to an X-ray film in a dark room for 3 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive controls for Western blotting; Jurkat, A549 and HeLa)



Western blot analysis of Syntaxin-17

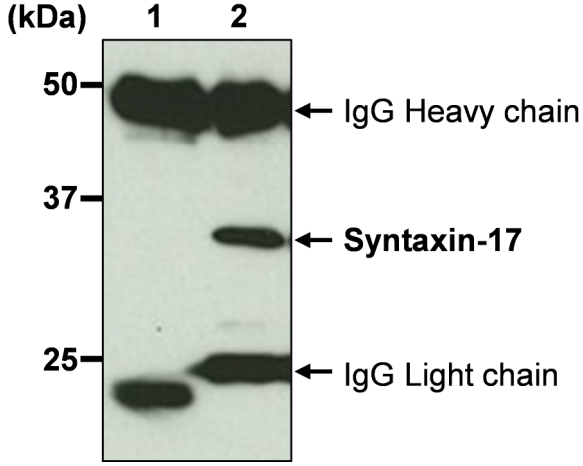
Lane 1: Jurkat
Lane 2: A549
Lane 3: HeLa

Immunoblotted with Anti-Syntaxin-17 (Human) mAb (M212-3)

Immunoprecipitation

1) Resuspend 1 x 10^7 cells with 1 mL of ice-cold Extraction buffer [50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 0.05% NP-40] containing appropriate protease inhibitors, then sonicate the cell suspension for 20 sec.
2) Centrifuge the tube at 12,000 x g for 10 min. at 4°C and transfer the supernatant to another tube.
3) Mix 20 µL of 50% protein A agarose beads slurry resuspended in 300 µL of Extraction buffer with primary antibody as suggested in the **APPLICATIONS**. Incubate with gentle agitation for 1 hr. at 4°C.
4) Wash the beads 1 time with 1 mL of Extraction buffer.
5) Add 300 µL of cell lysate (prepared sample from step 2)), then incubate with gentle agitation for 1 hr. at 4°C.
6) Wash the beads 4 times with 1 mL of Extraction buffer.
7) Resuspend the beads in 20 µL of Laemmli's sample buffer, boil for 3 min. and centrifuge.
8) Load 10 µL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) for electrophoresis.
9) 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.
10) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) overnight at 4°C.
11) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3 times).
12) 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.)
13) Wash the membrane with PBS-T (5 min. x 3 times).
14) 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.
15) Wash the membrane with PBS-T (5 min. x 3 times)
16) Wipe excess buffer on the membrane, 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.
    Expose to an X-ray film in a dark room for 3 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Immunoprecipitation; HeLa)



Immunoprecipitation of Syntaxin-17 from HeLa

Lane 1: Mouse IgG2a (M076-3)
Lane 2: Anti-Syntaxin-17 (Human) mAb (M212-3)

Immunoblotted with M212-3