

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



Fast Line Product Series

Anti-ROR γ t mAb

CODE No.	M219-3
CLONALITY	Monoclonal
CLONE	4H11
ISOTYPE	Rat IgG2a κ
QUANTITY	100 μ L, 1 mg/mL
SOURCE	Purified IgG from mouse ascites fluid
IMMUNOGEN	KLH-conjugated synthetic peptide, corresponding to N-terminal region of human ROR γ t (This region shares 100% amino acid sequence homology with that of mouse ROR γ t.)
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

<u>Western blotting</u>	1 μ g/mL for chemiluminescence detection system
<u>Immunoprecipitation</u>	2 μ g/sample

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Sample	Transfectant	Not tested*	Not tested	Not tested
Reactivity	+			

*The reactivity to mouse is under evaluation.

Entrez Gene ID 6097 (Human)

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



MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.
URL <http://ruo.mbl.co.jp/>
e-mail support@mbi.co.jp, TEL 052-238-1904

RELATED PRODUCTS

Antibodies

M219-3 Anti-ROR γ t mAb
PM080 Anti-ROR γ t pAb
D222-3 Anti-GITR (Mouse) mAb
D222-4 Anti-GITR (Mouse) mAb-FITC
D222-5 Anti-GITR (Mouse) mAb-PE
D239-3M2 Anti-FR4 (Mouse) mAb (Functional grade)
D239-3 Anti-FR4 (Mouse) mAb
D239-4 Anti-FR4 (Mouse) mAb-FITC
D239-5 Anti-FR4 (Mouse) mAb-PE
D239-6 Anti-FR4 (Mouse) mAb-Biotin
PM024 Anti-Foxp3 pAb
D237-4 Anti-Foxp3 (Mouse) mAb-FITC
D237-6 Anti-Foxp3 (Mouse) mAb-Biotin
M120-3 Anti-Foxp3 mAb
D091-3 Anti-CTLA-4 (CD152) mAb
D091-6 Anti-CTLA-4 (CD152) mAb-Biotin

PM081 Anti-Cry1 (Mouse) pAb
PM082 Anti-Cry2 (Mouse) pAb
PM083 Anti-Per2 (Mouse) pAb
D333-3 Anti-CLOCK (Mouse) mAb (CLSP3)
D334-3 Anti-CLOCK (Mouse) mAb (CLNT1)
D335-3 Anti-BMAL1 (Mouse) mAb (B1BH2)
D349-3 Anti-CLOCK (Mouse) mAb (CLSP4)
PM079 Anti-DBP (Mouse) pAb
CY-P1016 Anti-SIRT1 pAb
RN032P Anti-CIRBP pAb
PM075 Anti-GNAT2 (Zebrafish) pAb

Kits

CY-1151 CycLex[®] SIRT1/Sir2 Deacetylase
Fluorometric Assay Kit
CY-1152 CycLex[®] SIRT2 Deacetylase
Fluorometric Assay Kit
CY-1173 CycLex[®] CaM-kinase II Assay Kit
CY-1252 CycLex[®] NMNAT Colorimetric Assay Kit

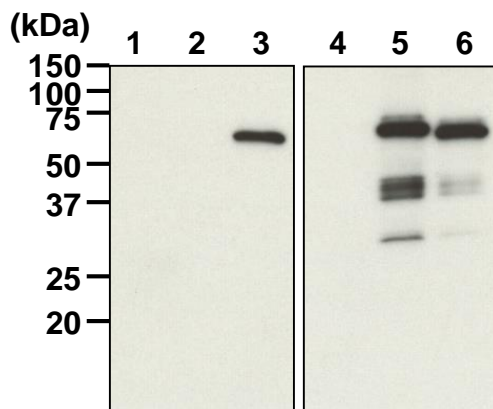
Recombinant proteins (Human, Active)

CY-E1151 NAD⁺-Dependent Deacetylase SIRT1
CY-E1152 NAD⁺-Dependent Deacetylase SIRT2
CY-E1173 CaM-kinase II Positive Control
CY-E1251 NAMPT (Human, Active)

SDS-PAGE & Western blotting

- 1) Wash 1×10^7 cells 3 times with PBS and suspend them in 1 mL Laemmli's sample buffer.
- 2) Boil the sample for 5 min. and centrifuge. Load 1 μ L of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% 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% MeOH). 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 times).
- 6) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS, pH 7.2) as suggested in the **APPLICATION** 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 times).
- 8) Incubate the membrane with the 1:10,000 Goat anti-Rat IgG Antibody, HRP conjugate (Millipore; code no. AP136P) 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, 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 a 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 control for Western blotting; Transfectant)



Western blot analysis of human ROR γ t

Lane 1, 4: HEK293T

Lane 2, 5: Myc-tagged ROR γ /HEK293T

Lane 3, 6: Myc-tagged ROR γ t/HEK293T

Immunoblot

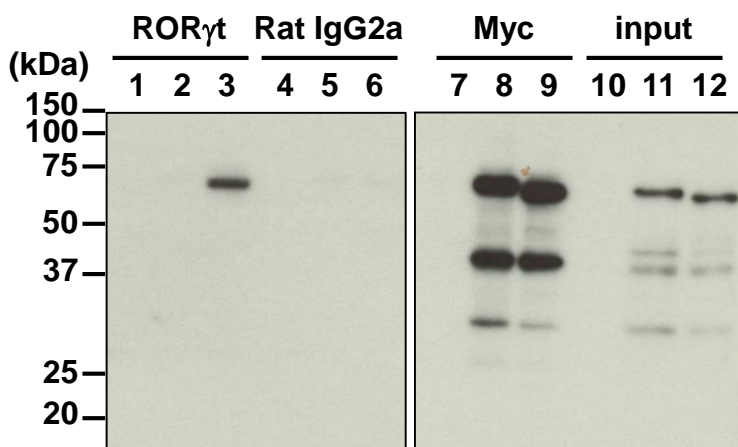
Lane 1-3: Anti-ROR γ t mAb (M219-3)

Lane 4-6: Anti-Myc-tag mAb (M192-3)

Immunoprecipitation

- 1) Wash 2×10^7 cells 3 times with PBS and resuspend them in 3 mL of Extraction buffer [10 mM Tris-HCl (pH 7.5), 150 mM NaCl, 1% NP-40] containing appropriate protease inhibitors. Incubate it at 4°C with rotating for 30 min.
- 2) Centrifuge the tube at 12,000 x g for 5 min. at 4°C and transfer the supernatant to another tube.
- 3) Add 100 μ L of 50% protein G agarose beads slurry resuspended in PBS-T [0.05% Tween-20 in PBS] into the 300 μ L of the supernatant. Incubate it at 4°C with rotating for 1 hr.
- 4) Centrifuge the tube and transfer the supernatant to another tube (precleared sample).
- 5) Add 70 μ L of 50% protein G agarose beads slurry resuspended in 300 μ L of PBS-T with primary antibody as suggested in the **APPLICATIONS**. Incubate with gentle agitation overnight at 4°C.
- 6) Wash the beads 4 times with 1 mL of PBS-T.
- 7) Add 300 μ L of the precleared sample (prepared in step 4)) to the tube containing antibody conjugated beads, then incubate with gentle agitation overnight at 4°C.
- 8) Wash the beads 4 times with 1 mL of PBS-T.
- 9) Resuspend the beads in 50 μ L of Laemmli's sample buffer, boil for 5 min. and centrifuge.
- 10) Load 10 μ L of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) for electrophoresis.
- 11) 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% MeOH). See the manufacturer's manual for precise transfer procedure.
- 12) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) overnight at 4°C.
- 13) Wash the membrane with PBS-T (5 min. x 3 times).
- 14) Incubate the membrane with 1:2,000 of Anti-Myc-tag mAb-HRP DirecT (MBL; code no. M047-7) diluted with 1:100 of Clear Back for IP Western (MBL; code no. MTG-002) in 1% skimmed milk (in PBS, pH 7.2) for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 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 a plastic wrap.
- 17) Expose to an X-ray film in a dark room for 10 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Immunoprecipitation; Transfectant)



Immunoprecipitation of human ROR γ t from transfectant

<Sample>

Lane 1, 4, 7, 10: HEK293T

Lane 2, 5, 8, 11: Myc-tagged ROR γ /HEK293T

Lane 3, 6, 9, 12: Myc-tagged ROR γ t/HEK293T

Lane 1-3: Anti-ROR γ t mAb (M219-3)

Lane 4-6: Rat IgG2a (isotype control) (M081-3)

Lane 7-9: Anti-Myc-tag mAb (M192-3)

Lane 10-12: Input (total cell lysate)

Immunoblotted with Anti-Myc-tag mAb
-HRP-DirecT (M047-7)