

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



## Anti-RFP mAb-HRP-Direct

<b>CODE No.</b>	M204-7
<b>CLONALITY</b>	Monoclonal
<b>CLONE</b>	1G9
<b>ISOTYPE</b>	Mouse IgG2b $\kappa$
<b>QUANTITY</b>	100 $\mu$ L
<b>SOURCE</b>	Purified IgG from hybridoma supernatant
<b>IMMUNOGEN</b>	RFP recombinant protein
<b>REACTIVITY</b>	This clone reacts with RFP, DsRed, mCherry, mOrange and mPlumn. It does not cross-react with GFP.
<b>FORMURATION</b>	PBS/Preservative/Stabilizer
<b>STORAGE</b>	This antibody solution is stable for one year from the date of purchase when stored at 4°C.
<b>APPLICATION-CONFIRMED</b>	
<u>Western blotting</u>	1:5,000 for chemiluminescence detection system

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



## RELATED PRODUCTS

### Antibodies

M155-3	Anti-RFP mAb (8D6)
M165-3	Anti-RFP mAb (3G5)
M165-8	Anti-RFP mAb-Agarose (3G5)
M204-3	Anti-RFP mAb (1G9)
M204-7	Anti-RFP mAb-HRP-DirecT (1G9)
M208-3	Anti-RFP mAb Cocktail (1G9, 3G5)
PM005	Anti-RFP pAb (polyclonal)
PM005-7	Anti-RFP pAb-HRP-DirecT (polyclonal)
M048-3	Anti-GFP mAb (1E4)
D153-3	Anti-GFP mAb (RQ2)
D153-6	Anti-GFP mAb-Biotin (RQ2)
D153-8	Anti-GFP mAb-Agarose (RQ2)
598	Anti-GFP pAb (polyclonal)
598-7	Anti-GFP pAb-HRP-DirecT (polyclonal)
PM073	Anti-Renilla GFP pAb (polyclonal)
M149-3	Anti-monomeric Kusabira-Green C-terminal fragment mAb (21B10)
PM011	Anti-Azami-Green pAb (polyclonal)
M103-3	Anti-Azami-Green mAb (3D10)
PM052	Anti-monomeric Azami-Green 1 pAb (polyclonal)
M102-3	Anti-monomeric Azami-Green 1 mAb (2F11)
M104-3	Anti-monomeric Kusabira-Orange 1 mAb (1H7)
M105-3	Anti-monomeric Kusabira-Orange 1 mAb (2G9)
M168-3	Anti-monomeric Kusabira-Orange 2 mAb (3B3)
PM051	Anti-monomeric Kusabira-Orange 2 pAb (polyclonal)
M126-3	Anti-monomeric Keima-Red mAb (2F7)
M127-3	Anti-Keima-Red mAb (3C9)
M116-3	Anti-Midoriishi-Cyan mAb (2C1)
M130-3	Anti-Midoriishi-Cyan mAb (5B7)
PM012	Anti-Kaede pAb (polyclonal)
M106-3	Anti-Kaede mAb (2F4)
M125-3	Anti-Kaede mAb (3B1)
M128-3	Anti-Kikume Green-Red mAb (5B3)
M129-3	Anti-Kikume Green-Red mAb (2D3)
M117-3	Anti-Dronpa-Green mAb (4D12)
M118-3	Anti-Dronpa-Green mAb (2F6)
M180-3	Anti-HA-tag mAb (TANA2) (200 µL)
M180-6	Anti-HA-tag mAb-Biotin (TANA2)
M180-7	Anti-HA-tag mAb-HRP-DirecT (TANA2)
561	Anti-HA-tag pAb (polyclonal) (0.1 mL)
561-7	Anti-HA-tag pAb-HRP-DirecT (polyclonal)
561-8	Anti-HA-tag pAb-Agarose (polyclonal)
M132-3	Anti-HA-tag mAb (5D8)
M185-3L	Anti-DDDDK-tag mAb (FLA-1) (1 mL)
M185-7	Anti-DDDDK-tag mAb-HRP-DirecT (FLA-1)
PM020	Anti-DDDDK-tag pAb (polyclonal)
PM020-7	Anti-DDDDK-tag pAb-HRP-DirecT (polyclonal)
PM020-8	Anti-DDDDK-tag pAb-Agarose (polyclonal)
M192-3	Anti-Myc-tag mAb (My3) (200 µL)
M192-6	Anti-Myc-tag mAb-Biotin (My3)
M047-3	Anti-Myc-tag mAb (PL14)
M047-6	Anti-Myc-tag mAb-Biotin (PL14)
M047-7	Anti-Myc-tag mAb-HRP-DirecT (PL14)
M047-8	Anti-Myc-tag mAb-Agarose (PL14)
562	Anti-Myc-tag pAb (polyclonal) (0.1 mL)
D291-3	Anti-His-tag mAb (OGHis) (200 µL)
D291-6	Anti-His-tag mAb-Biotin (OGHis)

D291-7	Anti-His-tag mAb-HRP-DirecT (OGHis)
D291-8	Anti-His-tag mAb-Agarose (OGHis)
D291-A48	Anti-His-tag mAb-Alexa Fluor <sup>®</sup> 488 (OGHis)
D291-A59	Anti-His-tag mAb-Alexa Fluor <sup>®</sup> 594 (OGHis)
D291-A64	Anti-His-tag mAb-Alexa Fluor <sup>®</sup> 647 (OGHis)
M089-3	Anti-His-tag mAb (6C4)
M136-3	Anti-His-tag mAb (2D8)
PM032	Anti-His-tag pAb (polyclonal)
PM032-8	Anti-His-tag pAb-Agarose (polyclonal)
M167-3	Anti-V5-tag mAb (1H6)
PM003	Anti-V5-tag pAb (polyclonal)
PM003-7	Anti-V5-tag pAb-HRP-DirecT (polyclonal)
PM003-8	Anti-V5-tag pAb-Agarose (polyclonal)
PM021	Anti-S-tag pAb (polyclonal)
PM070	Anti-E-tag pAb (polyclonal)
PM022	Anti-T7-tag pAb (polyclonal)
563	Anti-VSV-G-tag pAb (polyclonal)
M071-3	Anti-GST-tag mAb (3B2)
PM022	Anti-GST-tag pAb (polyclonal)
M095-3	Anti-Luciferase mAb (2D4)
PM016	Anti-Luciferase pAb (polyclonal)
PM047	Anti-Renilla Luciferase pAb (polyclonal)
M094-3	Anti-β-galactosidase mAb (5A3)
PM049	Anti-β-galactosidase pAb (polyclonal)
M091-3	Anti-MBP (Maltose Binding Protein) mAb (1G12)
M013-3	Anti-Thioredoxin (Trx-tag) mAb (2C9)
PM015	Anti-CBD (Chitin Binding Domain) pAb (polyclonal)
PM071	Anti-Calmodulin Binding Protein-tag pAb (polyclonal)

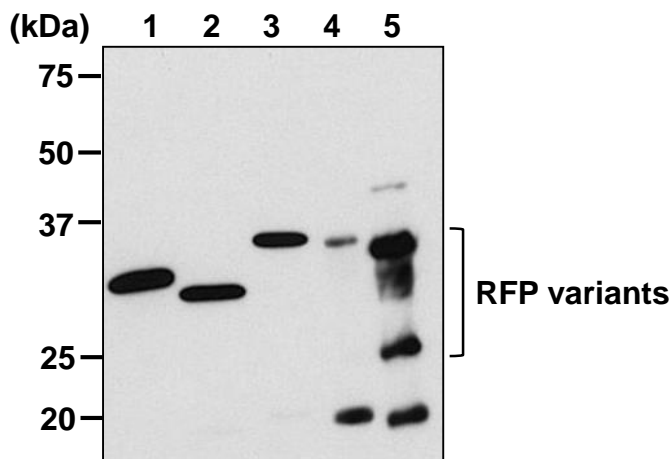
### Smart-IP series

3190	Magnetic Rack
M180-9	Anti-HA-tag mAb-Magnetic beads (TANA2)
M132-9	Anti-HA-tag mAb-Magnetic beads (5D8)
M185-9	Anti-DDDDK-tag mAb-Magnetic beads (FLA-1)
M047-9	Anti-Myc-tag mAb-Magnetic beads (PL14)
D291-9	Anti-His-tag mAb-Magnetic beads (OGHis)
D153-9	Anti-GFP mAb-Magnetic beads (RQ2)
M165-9	Anti-RFP mAb-Magnetic beads (3G5)
M167-9	Anti-V5-tag mAb-Magnetic beads (1H6)
M198-9	Anti-E-tag mAb-Magnetic beads (21D11)
D058-9	Anti-Multi Ubiquitin mAb-Magnetic beads (FK2)
M075-9	Mouse IgG1 (isotype control)-Magnetic beads
M076-9	Mouse IgG2a (isotype control)-Magnetic beads
M077-9	Mouse IgG2b (isotype control)-Magnetic beads
M081-9	Rat IgG2a (isotype control)-Magnetic beads
M180-10	Anti-HA-tag mAb-Magnetic Agarose (TANA2)
M132-10	Anti-HA-tag mAb-Magnetic Agarose (5D8)
M185-10	Anti-DDDDK-tag mAb-Magnetic Agarose (FLA-1)
M047-10	Anti-Myc-tag mAb-Magnetic Agarose (PL14)
D291-10	Anti-His-tag mAb-Magnetic Agarose (OGHis)
D153-10	Anti-GFP mAb-Magnetic Agarose (RQ2)
M165-10	Anti-RFP mAb-Magnetic Agarose (3G5)
M167-10	Anti-V5-tag mAb-Magnetic Agarose (1H6)
M198-10	Anti-E-tag mAb-Magnetic Agarose (21D11)

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

### **SDS-PAGE & Western blotting**

- 1) Mix the sample with equal volume of Laemmili's sample buffer.
- 2) Boil the sample for 3 min. and centrifuge. Load 10  $\mu$ 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/cm<sup>2</sup> 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) for 1 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** 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) 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.
- 9) 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.



#### ***Western blot analysis of RFP variants***

- Lane 1: DsRed
- Lane 2: mRFP1\*
- Lane 3: mCherry\*
- Lane 4: mOrange\*
- Lane 5: mPlumn\*

Immunoblotted with Anti-RFP mAb (M204-7)

\*Samples were provided by RIKEN.