

POLYCLONAL ANTIBODY

# Anti-Chitin Binding Domain pAb

Code No.  
PM015

Quantity  
100  $\mu$ L

Form  
Rabbit IgG

**BACKGROUND:** Chitin Binding Domain (CBD) is a widely used protein fusion partner, since it provides exhibits little effect on the biological function of the protein of interest. The CBD-Tag fusion protein expression system allows for efficient coupling to Chitin agarose affinity resins and purification by a single step chromatography. This specific antibody for CBD-Tag fusion protein is useful for monitoring of the fusion protein expression and affinity purification.

**SOURCE:** This antibody was purified from rabbit serum using protein A agarose. The rabbit was immunized with KLH conjugated synthetic peptide (TTNPGVSAWQVNTAYTAGQLVTYNGKTYK).

**FORMULATION:** 100  $\mu$ L volume of PBS containing 50% glycerol, pH 7.2. No preservative is contained.

**STORAGE:** This antibody is stable for one year from the date of purchase when stored at  $-20^{\circ}\text{C}$ .

**REACTIVITY:** This antibody reacts with CBD-Tag on Western blotting.

## APPLICATIONS:

Western blotting; 1:1,000 for chemiluminescence detection system  
Immunoprecipitation; Not tested  
Immunohistochemistry; Not tested  
Immunocytochemistry; Not tested  
Flow cytometry; Not tested

Detailed procedure is provided in the following **PROTOCOL**.

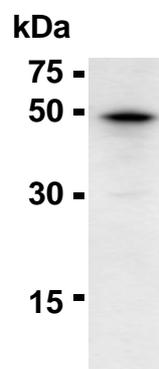
## INTENDED USE:

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

## PROTOCOL:

### SDS-PAGE & Western Blotting

- 1) Mix the sample with equal volume of Laemmli's sample buffer.
- 2) Boil the samples for 2 minutes and centrifuge. Load 10  $\mu$ L of the sample per lane in a 1 mm thick SDS-polyacrylamide gel for electrophoresis.
- 3) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm<sup>2</sup> for 1 hour in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacture'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 hour at room temperature, or overnight at  $4^{\circ}\text{C}$ .
- 5) Incubate the membrane with primary antibody diluted with PBS, pH 7.2 containing 1% skimmed milk as suggest in the **APPLICATIONS** for 1 hour at room temperature. (The concentration of antibody will depend on conditions.)
- 6) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 minutes x 3 times).
- 7) Incubate the membrane with 1:10,000 Anti-IgG (Rabbit) pAb-HRP (MBL; code no. 458) diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hour at room temperature.
- 8) Wash the membrane with PBS-T (5 minutes x 6 times).
- 9) Wipe excess buffer on the membrane, then incubate it with appropriate chemiluminescence reagent for 1 minute. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 10) Expose to an X-ray film in a dark room for 3 minutes. Develop the film as usual. The condition for exposure and development may vary.



**Western blot analysis of Chitin Binding Domain (CBD)-ER2566 using PM015.**

## RELATED PRODUCTS:

### Antibodies

M185-3S Anti-DDDDK-tag mAb (FLA-1) (50 µL)  
M185-6 Anti-DDDDK-tag mAb-Biotin (FLA-1)  
M185-A48 Anti-DDDDK-tag mAb-Alexa Fluor® 488 (FLA-1)  
M185-A59 Anti-DDDDK-tag mAb-Alexa Fluor® 594 (FLA-1)  
M185-A64 Anti-DDDDK-tag mAb-Alexa Fluor® 647 (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)  
M180-3S Anti-HA-tag mAb (TANA2) (50 µL)  
M180-6 Anti-HA-tag mAb-Biotin (TANA2)  
M180-A48 Anti-HA-tag mAb-Alexa Fluor® 488 (TANA2)  
M180-A59 Anti-HA-tag mAb-Alexa Fluor® 594 (TANA2)  
M180-A64 Anti-HA-tag mAb-Alexa Fluor® 647 (TANA2)  
561 Anti-HA-tag pAb (polyclonal) (0.1 mL)  
561-5 Anti-HA-tag pAb (polyclonal) (0.5 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)  
M192-3S Anti-Myc-tag mAb (My3) (50 µL)  
M192-6 Anti-Myc-tag mAb-Biotin (My3)  
M047-3 Anti-Myc-tag mAb (PL14)  
M047-7 Anti-Myc-tag mAb-HRP-Direct (PL14)  
M047-8 Anti-Myc-tag mAb-Agarose (PL14)  
M047-A48 Anti-Myc-tag mAb-Alexa Fluor® 488 (PL14)  
M047-A59 Anti-Myc-tag mAb-Alexa Fluor® 594 (PL14)  
M047-A64 Anti-Myc-tag mAb-Alexa Fluor® 647 (PL14)  
562 Anti-Myc-tag pAb (polyclonal) (0.1 mL)  
D291-3S Anti-His-tag mAb (OGHis) (50 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® 488 (OGHis)  
D291-A59 Anti-His-tag mAb -Alexa Fluor® 594 (OGHis)  
D291-A64 Anti-His-tag mAb-Alexa Fluor® 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)  
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)  
M208-3 Anti-RFP mAb Cocktail (1G9, 3G5)  
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)  
PM005 Anti-RFP pAb (polyclonal)  
PM005-7 Anti-RFP pAb-HRP-Direct (polyclonal)  
M167-3 Anti-V5-tag mAb (1H6)  
M215-3 Anti-V5-tag mAb (OZA3)  
M215-7 Anti-V5-tag mAb-HRP-Direct (OZA3)  
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)  
M209-3 Anti-GST-tag mAb (GT5)  
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)  
M211-3 Anti-Strep-tag II mAb (4F1)  
M214-3 Anti-mini-AID-tag mAb (1E4)  
M214-7 Anti-mini-AID-tag mAb-HRP-Direct (1E4)

### Smart-IP series

3190 Magnetic Rack  
M180-11 Anti-HA-tag mAb-Magnetic Beads (TANA2)  
M132-11 Anti-HA-tag mAb-Magnetic Beads (5D8)  
M185-11 Anti-DDDDK-tag mAb-Magnetic Beads (FLA-1)  
M047-11 Anti-Myc-tag mAb-Magnetic Beads (PL14)  
D291-11 Anti-His-tag mAb-Magnetic Beads (OGHis)  
D153-11 Anti-GFP mAb-Magnetic Beads (RQ2)  
M165-11 Anti-RFP mAb-Magnetic Beads (3G5)  
M198-9 Anti-E-tag mAb-Magnetic beads (21D11)  
M215-11 Anti-V5-tag mAb-Magnetic Beads (OZA3)  
M167-11 Anti-V5-tag mAb-Magnetic Beads (1H6)  
D058-11 Anti-Multi Ubiquitin mAb-Magnetic Beads (FK2)  
M075-11 Mouse IgG1 (isotype control)-Magnetic Beads  
M076-11 Mouse IgG2a (isotype control)-Magnetic Beads  
M077-11 Mouse IgG2b (isotype control)-Magnetic Beads  
M081-11 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)

### Protein Purification Kits

3325 DDDDK-tagged Protein PURIFICATION KIT  
3305 c-Myc-tagged Protein MILD PURIFICATION KIT  
3310 His-tagged Protein PURIFICATION KIT  
3317 V5-tagged Protein PURIFICATION KIT Ver. 2  
3320 HA-tagged Protein PURIFICATION KIT

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