

Blue ladder - HRP monoclonal antibody

Cat. No. C15200202

Type: Monoclonal

Isotype: IgG1

Source: Mouse

Lot #: 003D

Size: 10 µl/100 µl

Concentration: not determined

Specificity: The antibody is specific for the blue colour used in protein MW markers. It does not react with human, mouse, rat, chicken, hamster, monkey, yeast and E. coli proteins.

Purity: Protein A purified monoclonal antibody in Guardian Peroxidase Conjugate Stabilizer (Thermo Scientific cat. No. 37548).

Storage: Can be stored at 4°C for up to 2 years; for longer storage, store at -20°C. Avoid multiple freeze-thaw cycles.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Description: Monoclonal antibody raised in mouse against the blue colour used in many prestained protein MW markers. This antibody can be used to visualize the marker bands after WB. For easy detection, the antibody has been coupled to HRP omitting the need to use a secondary antibody.

Applications

	Suggested dilution	Results
Western blotting	1:1,000 - 1:5,000	Fig 1, 2, 3

Target description

Most prestained protein MW markers used in PAGE contain fragments that are labelled with a blue dye. This antibody specifically reacts with this blue dye, enabling to directly visualize the different marker fragments on the blot. This makes the positioning of the marker on the blot significantly more easy and accurate.

Results

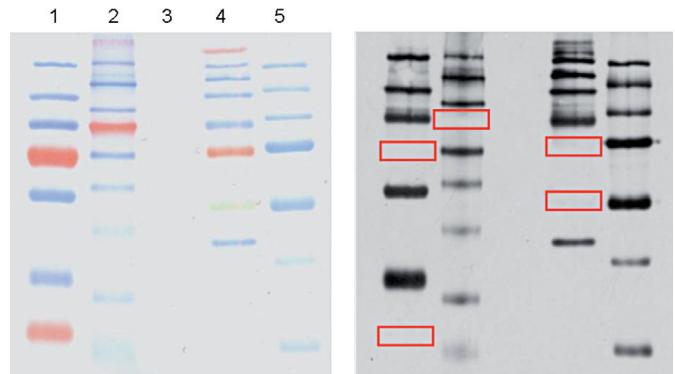


Figure 1. Western blot analysis using the Diagenode Blue ladder - HRP monoclonal antibody

PAGE analysis of 5 different protein MW markers: 1. Page Ruler Plus (Thermo, cat. No. 26619); 2. Color Plus broad range (NEB, cat. No. P7711); 3. Page Ruler (Unstained, Fermentas, cat. No. SM0661); 4. Spectra Multicolor (Fermentas, cat. No. SM1859); 5. Precision Plus (Biorad, Cat. No. 161-0373). 4 μ l of each marker was loaded on the gel. The right panel shows the Western blot analysis with the Diagenode Blue ladder - HRP antibody (Cat. No. C1520202) diluted 1:1,000, using a standard Western blot protocol.

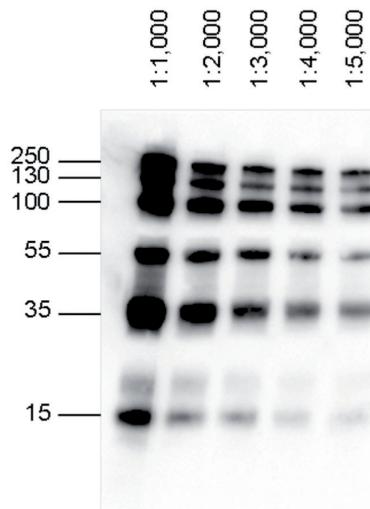


Figure 2. Western blot analysis using the Diagenode Blue ladder - HRP monoclonal antibody

5 μ l of the Page Ruler Plus Prestained Protein Ladder (Thermo Scientific, cat. No. 26619) were loaded on a gel and analyzed by Western blot with the Diagenode Blue ladder - HRP antibody (Cat. No. C1520202) used at different dilutions. Figure 2 shows that even with a 1:5,000 dilution all blue prestained bands of the molecular weight marker are clearly visible after a 30" exposure, a typical exposure time for WB analysis.

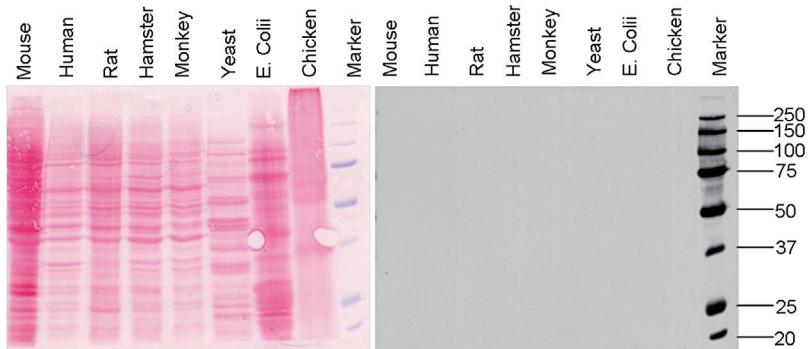


Figure 3. Western blot analysis using the Diagenode Blue ladder - HRP monoclonal antibody

Protein extracts from different species were subjected to SDS-PAGE and analyzed by Western blot with the Diagenode Blue ladder - HRP antibody (Cat. No. C1520202), diluted 1:1,000. The results are shown on the right. The left figure shows a Ponceau staining of the gel. This figure clearly demonstrates that the antibody does not react with any proteins of the species that were tested.

Western Blot protocol

1. Perform SDS-PAGE with a blue pre-stained protein molecular weight marker of your vendor of choice and your samples. Transfer proteins to a PVDF membrane.
2. Block the membrane in TBS-T (TBS + 0.05% Tween-20) containing 5% milk powder for 1h at room temperature.
3. Incubate the membrane overnight at 4°C with your primary antibody diluted in TBS-T + 5% milk. Incubate the lane with the molecular weight marker with the Blue ladder HRP-coupled antibody diluted 1:1,000 to 1:3,000 in TBS-T + 5% milk.
4. Wash the membrane 3 times 10 minutes with TBS-T + 5% milk at room temperature.
5. Incubate the membrane with a secondary HRP-coupled antibody diluted 1:10,000 to 1:20,000 in TBS-T + 5% milk for 1 hour at room temperature.
6. Wash membrane and the lane with the molecular weight marker 3 times 10 minutes with TBS-T at room temperature.
7. Visualize your protein together with the blue pre-stained protein marker bands by enhanced chemiluminescence (ECL).

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