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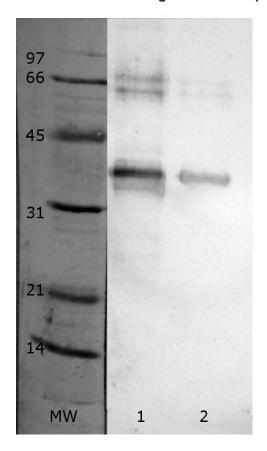
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WESTERN BLOT PROTOCOL

Myostatin Propeptide Human, Mouse Monoclonal Antibody, Clone: 4B9

Cat. No.: RD1820571004B9

Western Blot staining of a control protein



MW Marker.: MW: 97, 66, 45, 31, 21, 14 kDa, (Bio-Rad, USA),

Lane 1: Recombinant protein 10 ng/Lane, Reducing Lane 2: Recombinant protein 1 ng/Lane, Reducing

Recombinant protein Myostatin Propeptide Human E. coli Tag free (RD172058100) was subjected to SDS PAGE followed by Western Blot with Myostatin Propeptide Human, Mouse Monoclonal Antibody, Clone: 4B9 (RD1820571004B9) at a concentration of 1 μ g/ml. Stained with DAB.



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1. ELFO:

Polyacrylamide gel electrophoresis (PAGE) was used according to the method of Laemmli with minor modifications.

Slab gels (6 x 8 cm), 1 mm thick, were prepared in a multiple gel casting modul (Mini PROTEAN® 3 System, Bio-Rad, USA).

Stacking gel:

4% acrylamide was prepared from a stock solution of 40% acrylamide/bis-acrylamide, 37.5:1 (Bio-Rad, USA and diluted with 0.8 M Tris (pH 6.8); SDS was added to the final concentration of 0.1%.

Separation gel:

12% polyacrylamide prepared from a stock solution of 40% acrylamide/bis-acrylamide, 37.5:1 (Bio-Rad, USA) and diluted with 1.5 M Tris (pH 8.8); SDS was added to the final concentration of 0.1%.

Polymerisation was achieved with 0.1% v/v N'N'N N-tetramethyl ethylenediamine (TEMED) and 0.1% ammonium persulphate.

Sample preparation:

The protein concentration was determined by the BCA method (with Bovine Albumin as a standard).

Nonreducing conditions:

Protein samples were mixed 1:1 with nonreducing sample buffer (0.19 M Tris, 2% SDS, 1% (v/v) glycerol and 0.001% Bromophenol blue)

Reducing conditions:

Protein samples were mixed 1:1 with reducing sample buffer (0.19 M Tris, 2% SDS, 1% (v/v) glycerol, 0.001% (w/v) Bromophenol blue and 5% 2-Mercaptoethanol) and boiled for 6 min.

Gels were run at 100 V for 15 min and than at 200 V for 45 min.

Running Buffer: 0.025 M Tris, 0.192 M glycine and SDS 0.1%, pH 8.3.

2. WESTERN BLOT:

SDS-PAGE separated proteins were blotted onto the PVDF membrane at 15 V for 15 minutes at RT.

Transfer buffer for semidry blotting:

20% methanol, 0.0125 M Tris, 0.096 M glycine and SDS 0.05%.

Membrane with transfered protein was blocked in a blocking buffer for 120 min at RT.

Blocking buffer:

0.05 M Tris, 0.15 M NaCl, 0.05% Tween, 0.05% Gelatine, 0.02% Thimerosal



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3. DETECTION:

Detection of a recombinant protein <u>Myostatin Propeptide Human E. coli Tag free</u> (RD172058100) (BioVendor - Laboratorní medicína a.s., Czech Republic)

Primary antibody:

Myostatin Propeptide Human, Mouse Monoclonal Antibody, Clone: 4B9 (RD1820571004B9) - concentration $1\mu g/ml$ in 0.05 M Tris, 0.15 M NaCl, 0.05% Tween,

0.05% Gelatine, 0.02% Thimerosal

Incubation: 1 hour

Washing: 3x in 0.05 M Tris, 0.15 M NaCl, 0.05% Tween

Secondary antibody:

Anti-Mouse HRP-Conjugate (Dako) - 1:4000 in 0.05 M Tris, 0.15 M NaCl, 0.05% Tween,

0.05% Gelatine, 0.02% Thimerosal

Incubation: 1 hour

Washing: 3x in 0.05 M Tris, 0.15 M NaCl, 0.05% Tween

Substrate: DAB