RD184073100-02  Angiopoietin-Like Protein 4 (HEK) Human, Sheep Polyconal Antibody

Western Blot staining of a control protein

MW Marker.:  MW: 97, 66, 45, 31, 21, 14  kDa, (Bio-Rad, USA),
Lane 1:  Recombinant protein 1000 ng/Lane, Reducing
Lane 2:  Recombinant protein 100 ng/Lane, Reducing
Lane 3:  Recombinant protein 10 ng/Lane, Reducing
Lane 4:  Recombinant protein 10 ng/Lane, Non-reducing
Lane 5:  Recombinant protein 100 ng/Lane, Non-reducing
Lane 6:  Recombinant protein 1000 ng/Lane, Non-reducing

Recombinant Angiopoietin-like Protein 4 Human HEK (RD172073100-HEK) was subjected to SDS PAGE followed by Western Blot with RD184073100-02 (Angiopoietin-Like Protein 4 (HEK) Human, Sheep Polyconal Antibody) at a concentration of 1 µg/ml. Stained with DAB.
Protocol for Western Blot

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 100V for 20 min and than at 200 V for 50 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 500mA 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 transferred protein was blocked in a blocking buffer for 1 hour at RT.

*Blocking buffer:*
0.05 M Tris, 0.15 M NaCl, 0.05% Tween, 0.05% Gelatine, 0.02% Thimerosal

**3. DETECTION:**

**Detection of a recombinant protein Angiopoietin-like Protein 4 Human (HEK, RD172073100-HEK) (BioVendor, Czech Republic)**

*Primary antibody:*
Angiopoietin-Like Protein 4 (HEK) Human, Sheep Polyclonal Antibody (RD184073100-02) - dilution 1µg/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-Goat HRP-Conjugate (DAKO) – 1: 2000 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