

Anti-PRDM4 Antibody Picoband™

Catalog Number: A11843-2

About PRDM4

The protein encoded by this gene is a transcription factor of the PR-domain protein family. It contains a PR-domain and multiple zinc finger motifs. Transcription factors of the PR-domain family are known to be involved in cell differentiation and tumorigenesis. An elevated expression level of this gene has been observed in PC12 cells treated with nerve growth factor, beta polypeptide (NGF). This gene is located in a chromosomal region that is thought to contain tumor suppressor genes.

Overview

Product Name	Anti-PRDM4 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PRDM4 Antibody Picoband™ catalog # A11843-2. Tested in ELISA, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9UKN5

Technical Details

Immunogen	E.coli-derived human PRDM4 recombinant protein (Position: E87-R405).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Human, Mouse, Rat

Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human

Direct ELISA, 0.1-0.5 µg/ml, Human

Anti-PRDM4 Antibody Picoband™ (A11843-2) Images

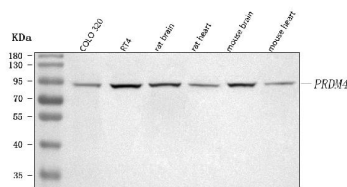


Figure 1. Western blot analysis of PRDM4 using anti-PRDM4 antibody (A11843-2).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human COLO320 whole cell lysates,

Lane 2: human RT4 whole cell lysates,

Lane 3: rat brain tissue lysates,

Lane 4: rat heart tissue lysates,

Lane 5: mouse brain tissue lysates,

Lane 6: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.

Blocked the membrane with 5% non-fat milk/TBS for 1.5

hour at RT. The membrane was incubated with rabbit anti-PRDM4 antigen affinity purified polyclonal antibody (Catalog # A11843-2) at 0.5 ug/mL overnight at 4°C, then washed

with TBS-0.1%Tween 3 times with 5 minutes each and

probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is

developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A

specific band was detected for PRDM4 at approximately 88 kDa. The expected band size for PRDM4 is at 88 kDa.

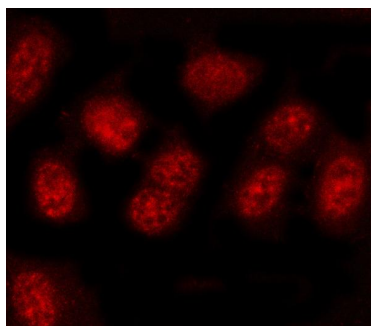


Figure 2. IF analysis of PRDM4 using anti-PRDM4 antibody (A11843-2).

PRDM4 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using

IHC enzyme antigen retrieval reagent (AR0022) for 15 mins.

The cells were blocked with 10% goat serum. And then

incubated with 5 ug/mL rabbit anti-PRDM4 Antibody

(A11843-2) overnight at 4°C. DyLight®550 Conjugated Goat

Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C.

Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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