Data Sheet (Cat.No.TMAC-03412)

Anti-PRDM1 Antibody (4L235)

Product Details

Reactivity: Human

Conjugation: Unconjugated

Molecular Weight: Theoretical: 92 kDa.

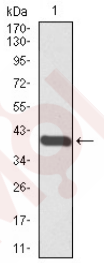
Clone: 4L235

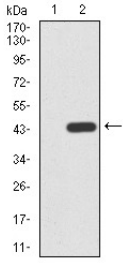
Purification: ProA affinity purified

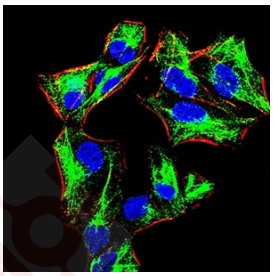
Applications

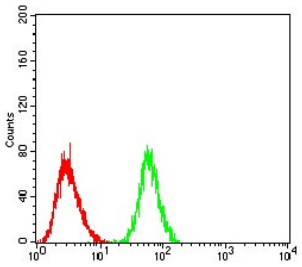
Verified Activity:

1. Western blot analysis of PRDM1 on human PRDM1 recombinant protein using anti-PRDM1 antibody at 1/1,000 dilution.
2. Western blot analysis of PRDM1 on HEK293 (1) and PRDM1-hIgGFc transfected HEK293 (2) cell lysate using anti-PRDM1 antibody at 1/1,000 dilution.
3. ICC staining PRDM1 (green) and Actin filaments (red) in Hela cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. Flow cytometric analysis of Raji cells with PRDM1 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).









Application: FCM,ICC,WB

Recommended: WB: 1:500-2000; ICC: 1:200-1000; FCM: 1:100-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O75626

Synonyms: Beta interferon gene positive regulatory domain I binding factor;Positive Regulatory Domain I Binding Factor 1;PRDI-binding factor 1;PR domain zinc finger protein 1;B Lymphocyte Induced Maturation Protein 1;BLIMP1;PR domain containing 1 with ZNF domain isoform 2;BLIMP-1;PRDI BF1;PRDI binding factor 1;PRDI-BF1;PRDM 1;PR domain-containing protein 1;PR domain containing protein 1;Prdm1;Positive regulatory domain I-binding factor 1;PR domain containing 1 with ZNF domain;Beta-interferon gene positive regulatory domain I-binding factor;PRDM1_HUMAN;PR Domain Containing 1

Research Background

The development and differentiation of plasma cells, which are terminally differentiated B-cells, are induced by Blimp-1 (B lymphocyte-induced maturation protein, also designated PRDI-BF1). Blimp-1 is a transcriptional repressor that localizes to the nucleus and is considered a master regulator of terminal B-cell development. Alone, Blimp-1 is sufficient to trigger terminal B-cell differentiation. Blimp-1 upregulates the expression of syndecan-1 and J chain, represses IFN-b gene transcription and associates with HDAC to recruit it to DNA, thereby repressing c-myc. Blimp-1 is expressed during the late stages of B-cell differentiation in immunoglobulin-secreting plasma cells, as well as in long-lived, bone marrow plasma cells. The expression of Blimp-1 defines a checkpoint beyond which fully activated B cells proceed to the plasma cell stage, whereas immature and partially activated cells are eliminated.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481