

ARG65048 anti-PRDM1 / Blimp 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PRDM1 / Blimp 1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Pig
Tested Application	FACS, ICC/IF, WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_001189.2; NP_878911.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PRDM1 / Blimp 1
Species	Human
Immunogen	C-DISDNADRLEDVED
Conjugation	Un-conjugated
Alternate Names	Beta-interferon gene positive regulatory domain I-binding factor; PR domain zinc finger protein 1; BLIMP-1; BLIMP1; PRDI-binding factor 1; PR domain-containing protein 1; EC 2.1.1.-; PRDI-BF1; Positive regulatory domain I-binding factor 1

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	WB	0.1 - 2.0 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

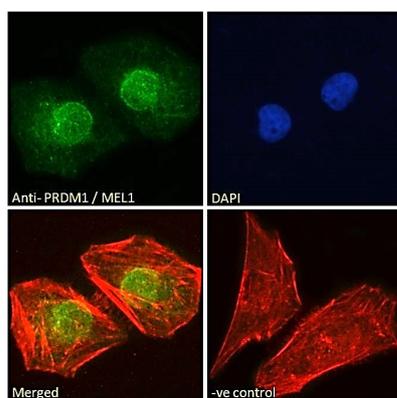
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

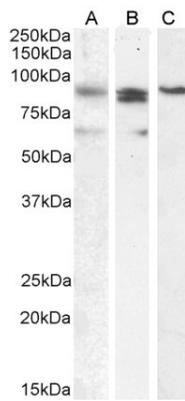
Database links	GeneID: 639 Human Swiss-port # O75626 Human
Gene Symbol	PRDM1
Gene Full Name	PR/SET domain 1
Background	This gene encodes a protein that acts as a repressor of beta-interferon gene expression. The protein binds specifically to the PRDI (positive regulatory domain I element) of the beta-IFN gene promoter. Transcription of this gene increases upon virus induction. Two alternatively spliced transcript variants that encode different isoforms have been reported. [provided by RefSeq, Jul 2008]
Function	Transcription factor that mediates a transcriptional program in various innate and adaptive immune tissue-resident lymphocyte T cell types such as tissue-resident memory T (Trm), natural killer (trNK) and natural killer T (NKT) cells and negatively regulates gene expression of proteins that promote the egress of tissue-resident T-cell populations from non-lymphoid organs. Plays a role in the development, retention and long-term establishment of adaptive and innate tissue-resident lymphocyte T cell types in non-lymphoid organs, such as the skin and gut, but also in other nonbarrier tissues like liver and kidney, and therefore may provide immediate immunological protection against reactivating infections or viral reinfection (By similarity). Binds specifically to the PRDI element in the promoter of the beta-interferon gene (PubMed:1851123). Drives the maturation of B-lymphocytes into Ig secreting cells (PubMed:12626569). Associates with the transcriptional repressor ZNF683 to chromatin at gene promoter regions (By similarity). [UniProt]
Research Area	Gene Regulation antibody; Immune System antibody
Calculated Mw	92 kDa
PTM	Sumoylation at Lys-816 by PIAS1 augments transcriptional repressor activity, and is critical for plasma cell differentiation. Ubiquitinated by the SCF(FBXO11) complex, leading to its degradation by the proteasome.

Images



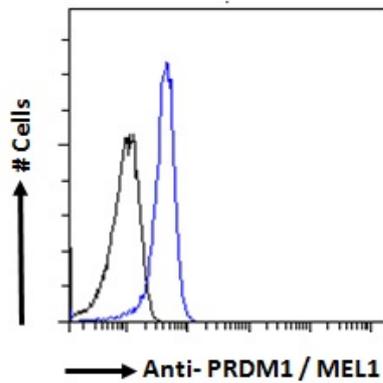
ARG65048 anti-PRDM1 / Blimp 1 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG65048 anti-PRDM1 / Blimp 1 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Phalloidin (red) for Actin filaments staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



ARG65048 anti-PRDM1 / Blimp 1 antibody WB image

Western blot: 35 μg of A431 (A), K562 (B) and K562 nucleus (C) lysates (in RIPA buffer) stained with ARG65048 anti-PRDM1 / Blimp 1 antibody at 0.1 $\mu\text{g}/\text{ml}$ (A), 2 $\mu\text{g}/\text{ml}$ (B) and 1 $\mu\text{g}/\text{ml}$ (C) dilutions and incubated at RT for 1 hour.



ARG65048 anti-PRDM1 / Blimp 1 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed A431 cells permeabilized with 0.5% Triton. Cells were stained with ARG65048 anti-PRDM1 / Blimp 1 antibody (blue line) at 10 $\mu\text{g}/\text{ml}$ dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).