



# Mouse Anti-PRDM1 monoclonal antibody, clone SPT206H (CABT-RM129)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Detects PR domain zinc finger protein 1.
<b>Target</b>	PRDM1
<b>Immunogen</b>	GST-tagged full-length human recombinant PR domain zinc finger protein 1.
<b>Isotype</b>	IgG1, κ
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	SPT206H
<b>Purification</b>	Protein G purified
<b>Conjugate</b>	unconjugated
<b>Applications</b>	IHC, IP, WB
<b>Molecular Weight</b>	91.77 kDa calculated.
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
<b>Preservative</b>	0.05% sodium azide
<b>Storage</b>	Stable for 1 year at 2-8°C from date of receipt.

# BACKGROUND

## Introduction

PR domain zinc finger protein 1 is encoded by the PRDM1 gene in human. BLIMP-1 is a transcriptional repressor that is required for terminal B-cell differentiation into plasma cells. During B-cell differentiation, it actively represses the transcription of the c-Myc gene through binding its promoter. It is considered as a master regulator in terminal B-cell differentiation and has also been identified as a tumor suppressor target for mutational inactivation in diffuse large B-cell lymphomas. BLIMP-1 expression has been demonstrated in a subset of diffuse large B-cell lymphoma (DLBCL) with aggressive behavior. It also 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. BLIMP-1 is reported to be a target for microRNA-mediated down-regulation by miR-9 and let-7a in Hodgkin/ Reed-Sternberg cells of Hodgkin lymphoma. BLIMP-1 contains four C2H2 type zinc finger domains and a SET domain (aa 84-201). Its sumoylation at Lysine 816 by E3 SUMO-protein ligase PIAS1 augments its transcriptional repressor activity and is also essential for plasma cell differentiation. Three isoforms of BLIMP-1 have been described that are produced by alternative splicing.

## Keywords

PRDM1; PR domain containing 1, with ZNF domain; BLIMP1; PRDI-BF1; PR domain zinc finger protein 1; BLIMP-1; PRDI-binding factor-1; B-lymphocyte-induced maturation protein 1; beta-interferon gene positive-regulatory domain I binding factor

# GENE INFORMATION

## Entrez Gene ID

[639](#)

## UniProt ID

[O75626](#)