



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

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

BACKGROUND

Introduction	<p>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.</p>
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Keywords	<p>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</p>
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GENE INFORMATION

Entrez Gene ID	639
UniProt ID	O75626