

Product datasheet

Anti-PRDM1/Blimp1 antibody [6D3] ab243146

Recombinant

[3 References](#) [3 Images](#)

Overview

Product name	Anti-PRDM1/Blimp1 antibody [6D3]
Description	Rat monoclonal [6D3] to PRDM1/Blimp1
Host species	Rat
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Synthetic peptide. This information is considered to be commercially sensitive.
Positive control	WB: NIH/3T3 and RAW 264.7 whole cell lysates. IHC-P: Mouse small intestine tissue.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Ion Exchange Chromatography
Clonality	Monoclonal
Clone number	6D3
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab243146 in the following tested applications.

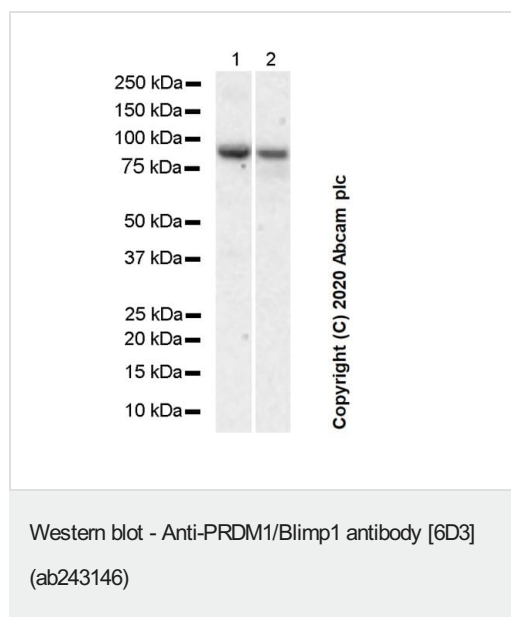
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.89 µg/ml. Detects a band of approximately 95 kDa (predicted molecular weight: 96 kDa).
IHC-P		Use a concentration of 17.8 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Transcriptional repressor that 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).
Sequence similarities	Belongs to the class V-like SAM-binding methyltransferase superfamily. Contains 4 C2H2-type zinc fingers. Contains 1 SET domain.
Post-translational modifications	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.
Cellular localization	Nucleus. Cytoplasm.

Images



All lanes : Anti-PRDM1/Blimp1 antibody [6D3] (ab243146) at 0.89 µg/ml

Lane 1 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

Lane 2 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rat IgG H&L (HRP) (**ab205720**) at 1/10000 dilution

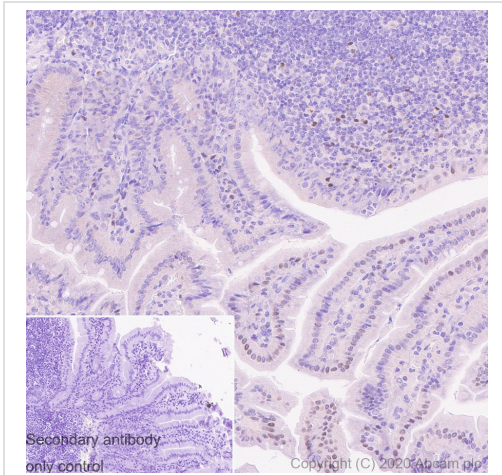
Predicted band size: 96 kDa

Observed band size: 95 kDa

Exposure time: 3 minutes

This blot was developed using a higher sensitivity ECL substrate.

Blocking/Dilution buffer: 5% NFDm/TBST.







Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue labeling PRDM1/Blimp1 with ab243146 at 17.8µg/ml followed by ready to use Goat Anti-Rat IgG H&L (HRP). Nuclear staining on the lymph node and surface epithelial cells in the mouse small intestine (PMID: 21878906). Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is ready to use Goat Anti-Rat IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRDM1/Blimp1 antibody [6D3] (ab243146)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-PRDM1/Blimp1 antibody [6D3] (ab243146)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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