

**Datasheet for 600-401-Z76****PRDM1 BLIMP1 Antibody****Overview**

<b>Description:</b>	Anti-PRDM1/BLIMP1 (RABBIT) Antibody - 600-401-Z76
<b>Item No.:</b>	600-401-Z76
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, WB
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Blimp-1 was initially identified as a zinc finger-containing protein that drives the maturation of B lymphocytes into immunoglobulin-secreting cells. Together with X-box-binding protein 1 (XBP1), Blimp-1 is induced upon terminal differentiation of plasma cells. The transcriptional repressor activity of Blimp-1 has also been found to regulate T cell homeostasis and function, possibly by suppressing the expression of the cytokines IL-2 and interferon-gamma during T cell development. More recent experiments have suggested that Blimp-1 also plays a major role in the formation of primordial germ cells (PGC) in developing mammalian embryos. In these experiments, Blimp-1-deficient mutant mouse embryos form a cluster of PGC-like cells which fail to show the expected migration, proliferation, and repression of homeobox genes that normally accompany specification of primordial germ cells.
<b>Synonyms:</b>	Blimp-1 Antibody, BLIMP1, PRDI-BF1, PR domain zinc finger protein 1, BLIMP-1, PRDM1/BLIMP1
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	PRDM1
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	Anti-Blimp-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid peptide from near the C-terminus of human Blimp-1.
<b>Purity/Specificity:</b>	Anti-Blimp-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Blimp-1 from other sources has not been determined.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - O75626</a></li><li>• <a href="#">GeneID - 639</a></li><li>• <a href="#">NCBI - NP_001189</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, IF, WB
<b>Application Note:</b>	Anti-Blimp-1 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 92 kDa in Western Blots of specific cell lysates and tissues.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:5000 - 1:10000
<b>IF:</b>	20 µg/mL
<b>WB:</b>	0.5 - 1 µg/mL

## Formulation

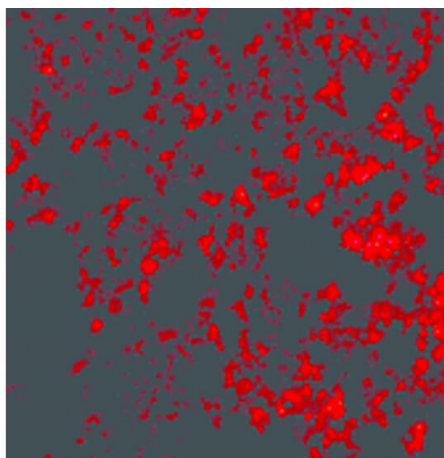
<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.02% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

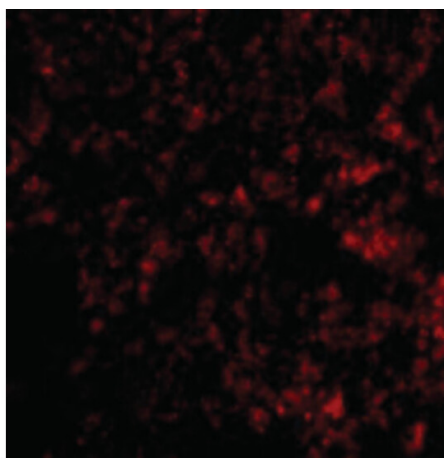
<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:**

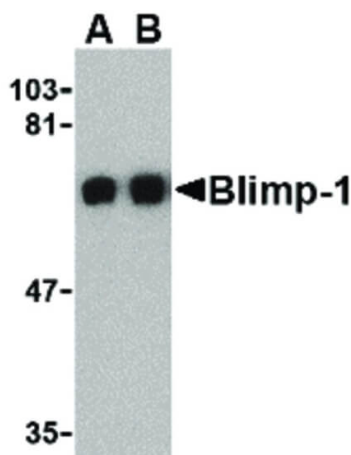
Expiration date is one (1) year from date of receipt.

**Images****Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Blimp-1 antibody.  
Tissue: mouse lung tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Blimp-1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Blimp-1 is nuclear and cytoplasmic. Staining: Blimp-1 as red fluorescent signal.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Blimp-1 antibody. Cell Type: mouse lung cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Blimp-1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Blimp-1 is nuclear and cytoplasmic. Staining: Blimp-1 as red fluorescent signal.



#### Western Blot

Western Blot of Blimp-1 antibody in A549 cell lysate. Lane A: Blimp-1 antibody at 0.5  $\mu\text{g/mL}$ . Lane B: Blimp-1 antibody at 1  $\mu\text{g/mL}$ . Load: 35  $\mu\text{g}$  per lane. Primary antibody: Blimp-1 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 92 kDa, 78 kDa for Blimp-1. Other band(s): Blimp-1 splice variants and isoforms.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.