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Datasheet for 600-401-Z76

PRDM1 BLIMP1 Antibody

Overview

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

Product Details

Background:	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.
Synonyms:	Blimp-1 Antibody, BLIMP1, PRDI-BF1, PR domain zinc finger protein 1, BLIMP-1, PRDM1/BLIMP1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PRDM1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	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.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - O75626 • GeneID - 639 • NCBI - NP_001189

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
WB:	0.5 - 1 µg/mL

Formulation

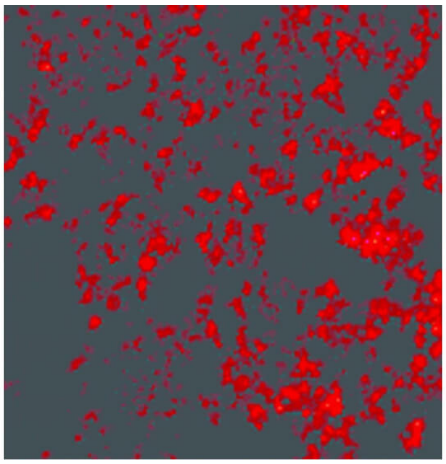
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

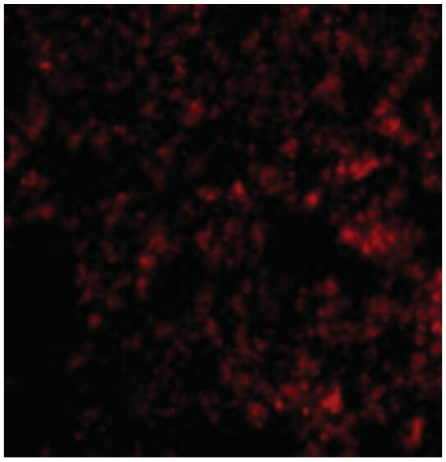
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

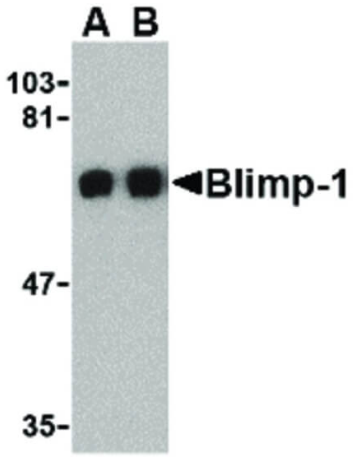
Images



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 µg/mL. Lane B: Blimp-1 antibody at 1 µg/mL. Load: 35 µg 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.

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