

Datasheet for 600-401-DT2**PROM1 Antibody****Overview**

Description:	Anti-PROM1 (RABBIT) Antibody - 600-401-DT2
Item No.:	600-401-DT2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	PROM1 is a pentaspan transmembrane glycoprotein that localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation (1). Mutations in this gene have been shown to result in retinitis pigmentosa (2). Expression of this gene is also associated with several types of cancer (3).
Synonyms:	PROM1 Antibody, RP41, AC133, CD133, MCDR2, STGD4, CORD12, PROML1, MSTP061, Prominin-1, Antigen AC133
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PROM1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PROM1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the C-terminus of human PROM1.

Purity/Specificity: Anti-PROM1 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. PROM1 antibody is human, mouse and rat reactive. Multiple isoforms of PROM1 are known to exist.

Relevant Links:

- [UniProtKB - O43490](#)
- [GeneID - 8842](#)
- [NCBI - NP_006008](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-PROM1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 97 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: 1:10,000 - 1:20,000

IF: 20 µg/mL

WB: 1-2 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

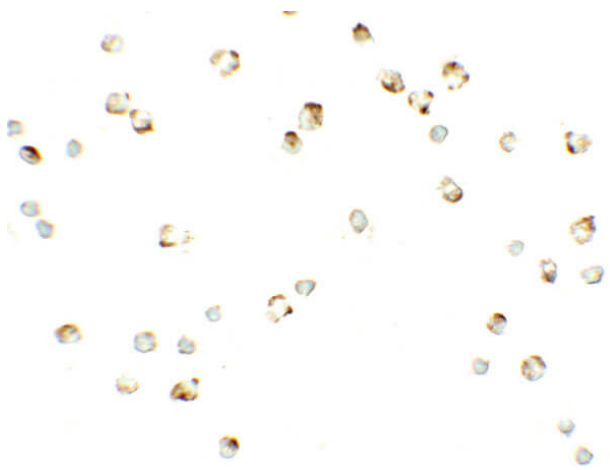
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

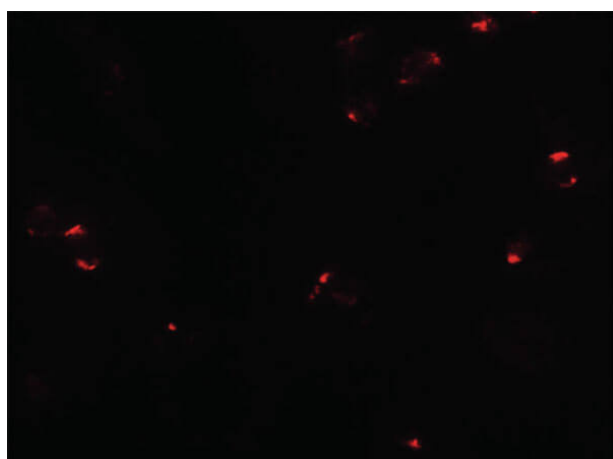
Expiration: Expiration date is one (1) year from date of receipt.

Images



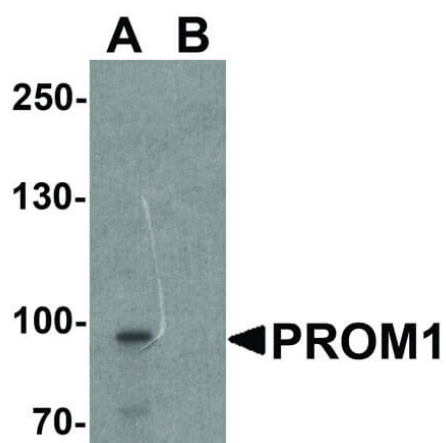
Immunocytochemistry

Immunocytochemistry of Rabbit anti-PROM1 antibody.
 Tissue: Jurkat cells. Primary antibody: PROM1 antibody at 2.5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:2,500. Localization: PROM1 is endoplasmic. Staining: PROM1 as precipitated brown signal.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-PROM1 antibody. Tissue: Jurkat cells. Primary antibody: PROM1 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: PROM1 is nuclear. Staining: PROM1 as red fluorescent signal.



Western Blot

Western Blot of Rabbit anti-PROM1 antibody. Lane A: Jurkat cell lysate in absence of blocking peptide. Lane B: Jurkat cell lysate in presence of blocking peptide. Primary antibody: PROM1 antibody at 1 µg/mL for lane A and lane B overnight at 4°C. Secondary antibody: Goat anti-rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 95 kDa, 97 kDa for PROM1.

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.