

Datasheet for 600-401-DP2**PIWI-L1 Antibody****Overview**

Description:	Anti-PIWI-L1 (RABBIT) Antibody - 600-401-DP2
Item No.:	600-401-DP2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	PIWI-L1 is a member of the PIWI subfamily of Argonaute proteins, evolutionarily conserved proteins containing both PAZ and Piwi motifs that are crucial for the biogenesis and function of small non-coding RNAs and play important roles in stem cell self-renewal, RNA silencing, and translational regulation in diverse organisms. PIWI-L1 is thought to play a role as an intrinsic regulator of the self-renewal capacity of germline and hematopoietic stem cells as removing PIWI-L1 protein from single germline stem cells significantly decreases the rate of their division. Recent studies have shown that overexpression of PIWI-L1 (as well as other PIWI-like proteins) are potential biomarkers for colon and other cancers.
Synonyms:	PIWI-L1 Antibody, HIWI, MIWI, PIWI, CT80.1, HIWI, Piwi-like protein 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PIWIL1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PIWI-L1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human PIWI-L1.

Purity/Specificity: Anti-PIWI-L1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PIWI-L1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q96J94](#)
- [GeneID - 9271](#)
- [NCBI - AAK69348](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-PIWI-L1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 99 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

IF: 20 µg/mL

IHC: 10 µg/mL

WB: 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

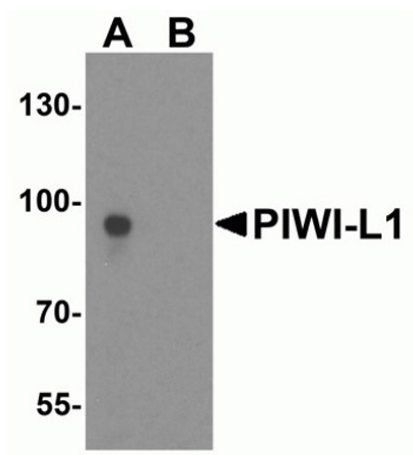
Shipping & Handling

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:

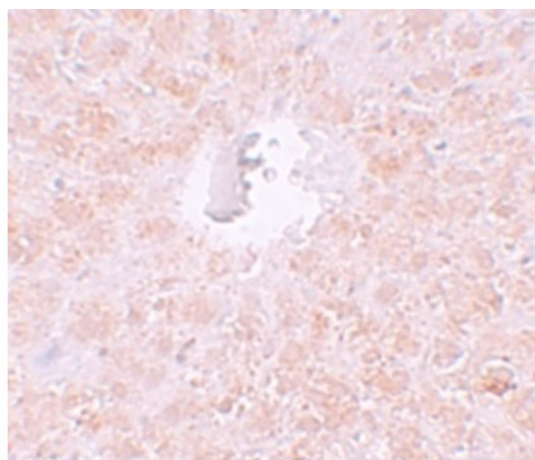
Expiration date is one (1) year from date of receipt.

Images**Western Blot**

Western blot analysis of PIWI-L1.

Load: human testis tissue lysate.

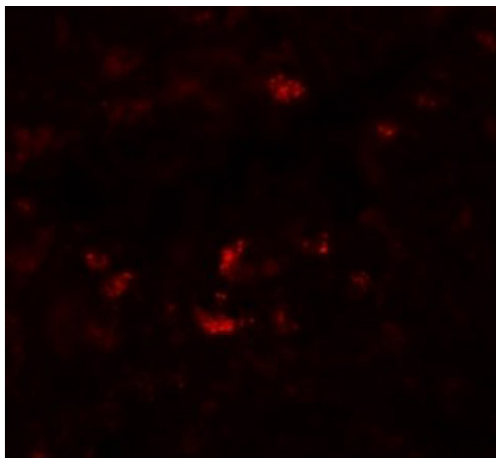
Primary Antibody: Anti-PIWI-L1 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.

**Immunohistochemistry**

Immunohistochemistry of PIWI-L1.

Tissue: rat liver tissue.

Primary Antibody: Anti-PIWI-L1 antibody at 10 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of PIWI-L1.

Tissue: rat liver tissue.

Primary Antibody: Anti-PIWI-L1 antibody at 20 µg/mL.

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.