

Datasheet for 600-401-DP4**PIWI-L2 Antibody****Overview**

Description:	Anti-PIWI-L2 (RABBIT) Antibody - 600-401-DP4
Item No.:	600-401-DP4
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	PIWI-L2 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-L2 has been implicated in multiple roles including stem cell self-renewal and is highly expressed in many breast cancers. In these tumors, PIWI-L2 silences the expression of STAT3, a regulator of Bcl-XL and cyclin D1, allowing the proliferation and survival of breast cancer stem cells. Recent studies have shown that overexpression of PIWI-like proteins are potential biomarkers for colon and other cancers.
Synonyms:	PIWI-L2 Antibody, CT80, HILI, mili, PIWIL1L, Piwi-like protein 2, CT80
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PIWIL2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PIWI-L2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the internal region of human PIWI-L2.

Purity/Specificity:	Anti-PIWI-L2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three isoforms of PIWI-L2 are known to exist; this antibody will only detect the two longest isoforms. PIWI-L2 antibody is predicted to not cross-react with other PIWI protein family members.
Relevant Links:	• UniProtKB - Q8TC59 • GeneID - 55124 • NCBI - NP_00129193

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-PIWI-L2 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 110 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:	User Optimized
IHC:	User Optimized
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

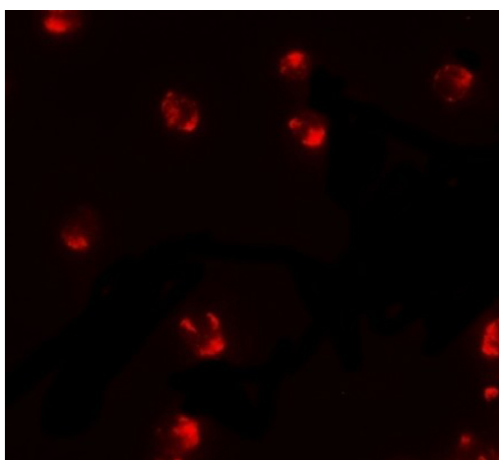
Shipping & Handling

Shipping Condition:	Dry Ice
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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

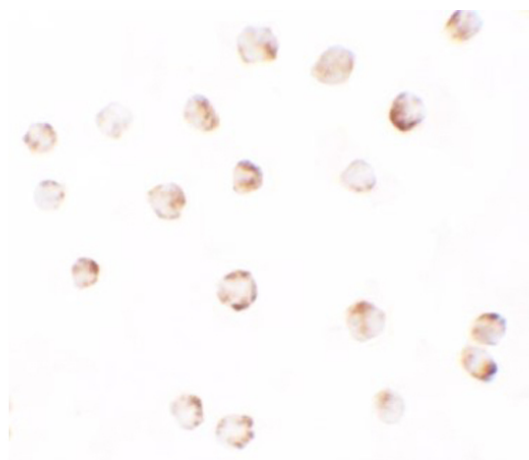


Immunofluorescence Microscopy

Immunofluorescence of PIWI-L2.

Tissue: HepG2 cells.

Primary Antibody: PIWI-L2 antibody at 5 µg/ml.

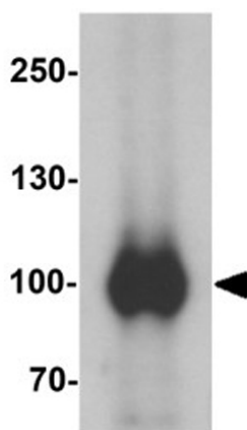


Immunocytochemistry

Immunocytochemistry of PIWI-L2.

Cell: HepG2 cells.

Primary Antibody: PIWI-L2 antibody at 2.5 µg/ml.

**Western Blot**

Western blot analysis of PIWI-L2.

Load: HepG2 cell lysate.

Primary Antibody: PIWI-L2 antibody at 1 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.