

**Datasheet for 600-401-DY2****RGS22 Antibody****Overview**

<b>Description:</b>	Anti-RGS22 (RABBIT) Antibody - 600-401-DY2
<b>Item No.:</b>	600-401-DY2
<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>	Regulator of G-protein signaling (RGS) proteins contain an 120 amino acid conserved domain, termed the RGS domain, that acts as a GTPase-activating protein that acts to reduce the signal transmitted by the receptor-activated G-alpha subunit. RGS22 is a recently identified member of this family that localizes to the testis and can interact with guanine nucleotide binding proteins alpha 11, 12, and 13 (GNA11, GNA12, and GNA13). While RGS22 has been postulated to play a role in spermiogenesis in the testis, it is also expressed in several cancer cell lines with an epithelial origin and associated with cancer metastasis. Its overexpression in a highly metastatic cancer causes a decrease in cell migration and a reduction of the invasive potential of the cells, suggesting that RGS22 may be a potential prognostic biomarker for metastasis.
<b>Synonyms:</b>	RGS22 Antibody, CT145, PRTD-NY2, Regulator of G-protein signaling 22, RGS22
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	RGS22
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	Anti-RGS22 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human RGS22.

**Purity/Specificity:** Anti-RGS22 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least four isoforms of RGS22 are known to exist; this antibody will detect the three longest isoforms. RGS22 antibody is predicted to not cross-react with other RGS proteins.

**Relevant Links:**

- [UniProtKB - Q8NE09](#)
- [GeneID - 26166](#)
- [NCBI - NP\\_056483](#)

## Application Details

**Tested Applications:** ELISA, IF, WB

**Application Note:** Anti-RGS22 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 147 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

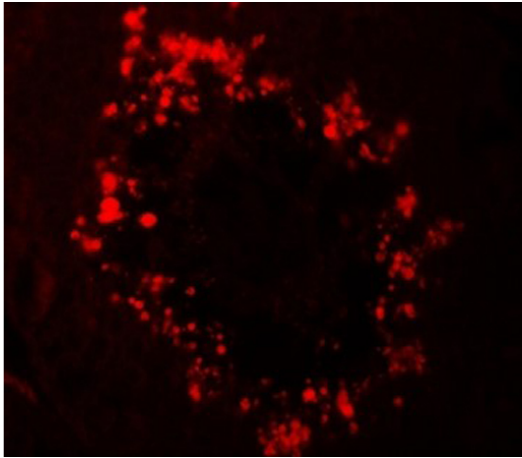
## Shipping & Handling

**Shipping Condition:** 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

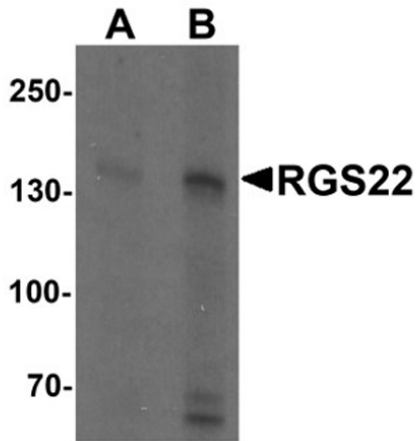


### Immunofluorescence Microscopy

Immunofluorescence of RGS22.

Tissue: human testis tissue.

Primary Antibody: RGS22 antibody at 20 µg/mL.



### Western Blot

Western blot analysis of RGS22.

Load: Jurkat cell lysate.

Primary Antibody: RGS22 antibody at (A) 1 and (B) 2 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.