

Datasheet for 600-401-DU6**PTGDR2 Antibody****Overview**

Description:	Anti-PTGDR2 (RABBIT) Antibody - 600-401-DU6
Item No.:	600-401-DU6
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The prostaglandin D2 receptor 2 (PTGDR2), also known as CRTH2, is expressed on Th2 cells and eosinophils and mediates chemotaxis of these cells to PGD2 and is thus thought to be a key receptor mediating eosinophil and Th2 recruitment during allergic responses. However, PTGDR2 -null mice showed enhanced eosinophil recruitment into the lung consistent with observations that the PTGDR2-null mice produced significantly higher amounts of interleukin-5 (IL-5) and IL-3. This suggests that PTGDR2 plays a nonredundant role in restricting eosinophilia and allergic response in vivo.
Synonyms:	PTGDR2 Antibody, DP2, DL1R, CD294, CRTH2, GPR44, Prostaglandin D2 receptor 2, Chemoattractant receptor-homologous molecule expressed on Th2 cells
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PTGDR2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti- PTGDR2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the internal region of human PTGDR2.

Purity/Specificity: Anti-PTGDR2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PTGDR2 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9Y5Y4](#)
- [GeneID - 11251](#)
- [NCBI - NP_004769](#)

Application Details

Tested Applications: ELISA, IF, WB

Application Note: Anti-PTGDR2 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 43 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: 1:5,000 - 1:10,000

IF: User Optimized

WB: .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

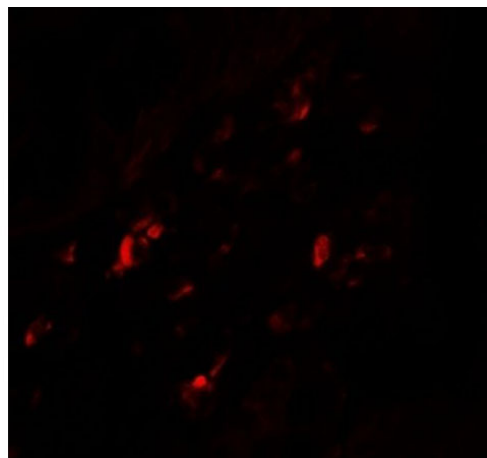
Shipping & Handling

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

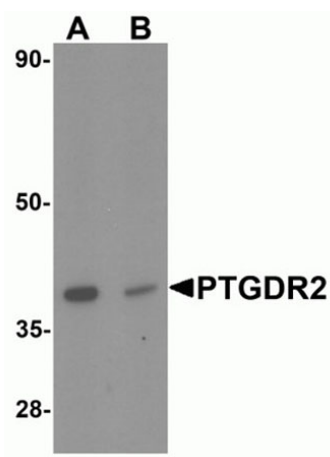


Immunofluorescence Microscopy

Immunofluorescence of PTGDR2.

Tissue: human small intestine tissue.

Primary Antibody: PTGDR2 antibody at 20 µg/ml.



Western Blot

Western blot analysis of PTGDR2.

Load: human small intestine tissue lysate.

Primary Antibody: PTGDR2 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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.