

Datasheet for 600-401-DH9**P2RX7 Antibody****Overview**

Description:	Anti-P2RX7 (RABBIT) Antibody - 600-401-DH9
Item No.:	600-401-DH9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The purinergic receptor P2X ligand-gated ion channel 7 (P2RX7) belongs to the family of purinoceptors for ATP (1). This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules (1,2). Activation of this nuclear receptor by ATP in the cytoplasm may be a mechanism by which cellular activity can be coupled to changes in gene expression (2). Recent studies have suggested that P2RX7 may play a key role in immune-mediated diseases such as rheumatoid arthritis (3) as well as neuropsychiatric disorders (4).
Synonyms:	P2X purinoceptor 7, P2X7, purinergic receptor P2X ligand-gated ion channel 7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	P2RX7
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-P2RX7 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the C-terminus of human P2RX7.

Purity/Specificity: Anti-P2RX7 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. P2RX7 antibody is human, mouse, and rat reactive. Multiple isoforms of P2RX7 are known to exist.

Relevant Links:

- [UniProtKB - Q99572](#)
- [GeneID - 5027](#)
- [NCBI - NP_002553](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-P2RX7 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 68 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

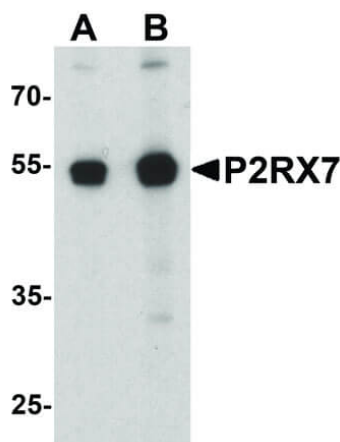
Shipping & Handling

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



Western Blot

Western Blot of Rabbit anti-P2RX7 antibody. Lane A: 3T3 cell lysate at 1 µg/mL. Lane B: 3T3 cell lysate at 2 µg/mL. Primary antibody: P2RX7 antibody overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 34/47/65 kDa, 54 kDa for P2RX7.

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.