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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

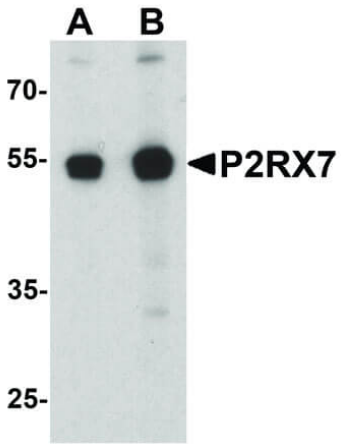
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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℃. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 34/47/65 kDa, 54 kDa for P2RX7.

Disclaimer

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