

Datasheet for ABIN3043588
anti-P2RX2 antibody (AA 139-471)[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	P2RX2
Binding Specificity:	AA 139-471
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for P2X purinoceptor 2(P2RX2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human P2X2 recombinant protein (Position: D139-L471). Human P2X2 shares 84% amino acid (aa) sequence identity with both mouse and rat P2X2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for P2X purinoceptor 2(P2RX2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: purinergic receptor P2X, ligand gated ion channel, 2</p> <p>Protein Name: P2X purinoceptor 2</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	P2RX2
Alternative Name:	P2RX2 (P2RX2 Products)
Background:	<p>The P2RX2 gene encodes the P2X2 receptor, which assembles as a trimer to form a ligand-gated ion channel gated by extracellular ATP. P2X2 receptors mediate a variety of cellular responses, including excitatory postsynaptic responses in sensory neurons. The product of this gene belongs to the family of purinoceptors for ATP. P2RX2 is mapped to 12q24.33. It has been found that ATP-activated P2RX2 influenced OHC electromotility, a stimulus-induced change in hair cell length that functions as an amplifier to determine hearing sensitivity and frequency selectivity. What's more, P2RX2 channels were necessary for development of the temporary threshold shift.</p> <p>Synonyms: ATP receptor antibody MGC129601 antibody P2RX 2 antibody P2RX2 antibody P2RX2_HUMAN antibody P2X purinoceptor 2 antibody P2X Receptor subunit 2 antibody P2X2 antibody P2X2a antibody Purinergic receptor antibody Purinergic receptor P2X ligand gated ion channel 2 antibody Purinergic receptor P2X2 isoform A antibody Purinergic receptor P2X2 isoform B antibody Purinergic receptor P2X2 isoform C antibody Purinergic receptor P2X2 isoform D antibody Purinergic receptor P2X2 isoform H antibody Purinergic receptor P2X2 isoform I antibody</p>
Gene ID:	22953
Pathways:	Skeletal Muscle Fiber Development , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for P2X2 is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

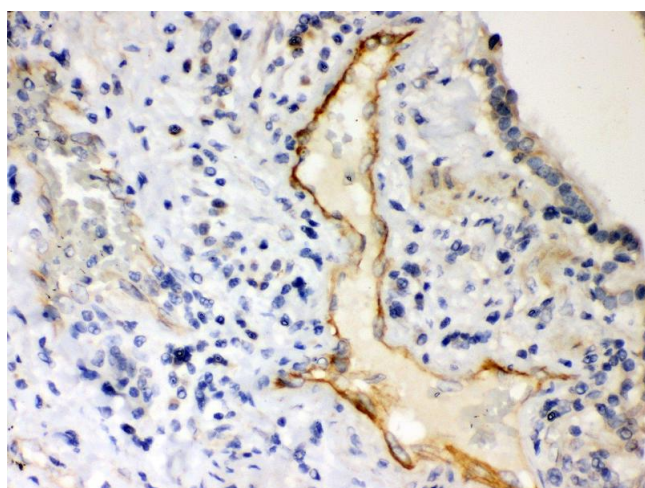
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

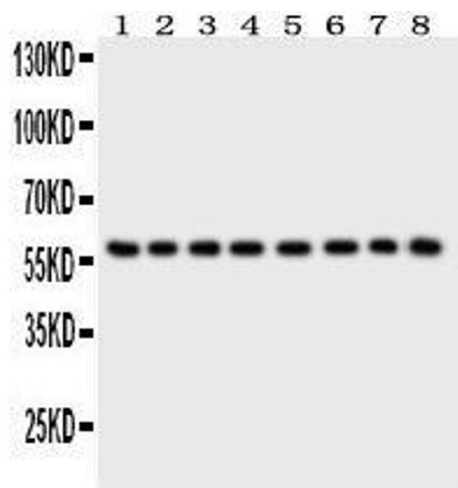
Product cited in:	Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: FEBS letters , Vol. 589, Issue 8, pp. 897-903, (2015) (PubMed).
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Images



Immunohistochemistry

Image 1. Anti- P2X2 Picoband antibody, IHC(P) IHC(P):
Human Lung Cancer Tissue



Western Blotting

Image 2. Anti- P2X2 Picoband antibody, Western blotting All lanes: Anti P2X2 at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Lane 3: Human Placenta Tissue Lysate at 50ug Lane 4: HELA Whole Cell Lysate at 40ug Lane 5: SHG Whole Cell Lysate at 40ug Lane 6: NEURO Whole Cell Lysate at 40ug Lane 7: 22RV1 Whole Cell Lysate at 40ug Lane 8: U87 Whole Cell Lysate at 40ug Predicted bind size: 52KD Observed bind size: 60KD