

Datasheet for ABIN2855803  
**anti-P2RX7 antibody (Center)**[Go to Product page](#)

3 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	P2RX7
Binding Specificity:	Center
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human P2X7. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Cow (Bovine)
Cross-Reactivity (Details):	Mouse (82 %), Bovine (86 %)
Characteristics:	Rabbit Polyclonal antibody to P2X7 (purinergic receptor P2X, ligand-gated ion channel, 7) P2X7 antibody
Purification:	Purified by antigen-affinity chromatography.

## Target Details

Target:	P2RX7
---------	-------

## Target Details

Alternative Name:	P2X7 ( <a href="#">P2RX7 Products</a> )
Background:	<p>The product of this gene belongs to the family of purinoceptors for ATP. 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. 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. Multiple alternatively spliced variants which would encode different isoforms have been identified although some fit nonsense-mediated decay (NMD) criteria.</p> <p>Cellular Localization: Membrane, Multi-pass membrane protein</p>
Molecular Weight:	69 kDa
Gene ID:	5027
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Synaptic Vesicle Exocytosis</a>

## Application Details

Application Notes:	Suggested dilution Reference IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceIHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: A431 , Rat brain
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol ( pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

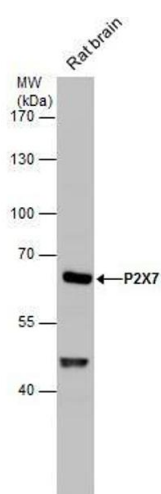
## Handling

Storage Comment: Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Publications

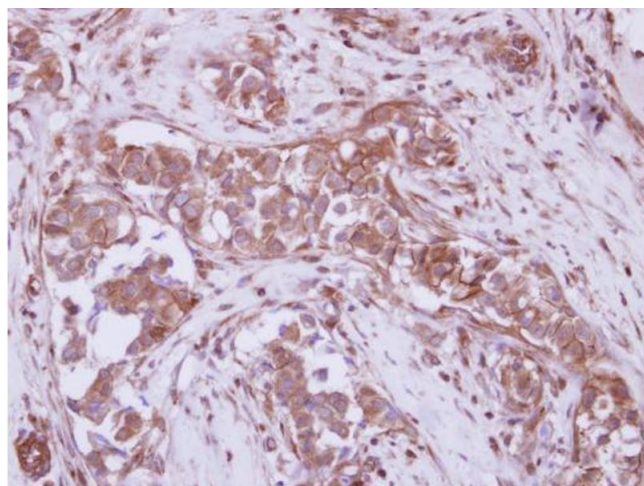
Product cited in: Xiao, Li, Zhang, Xu, Zhang: "Pannexin 3 activates P2X7 receptor to mediate inflammation and cartilage matrix degradation in temporomandibular joint osteoarthritis." in: **Cell biology international**, Vol. 47, Issue 7, pp. 1183-1197, (2023) ([PubMed](#)).

## Images



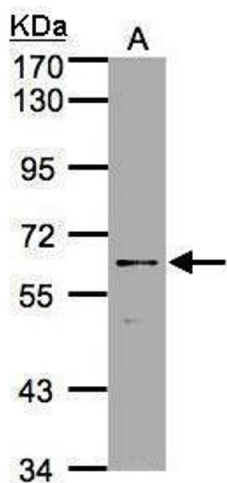
### Western Blotting

**Image 1.** WB Image P2X7 antibody detects P2X7 protein by western blot analysis. Rat tissue extracts (50 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with P2X7 antibody, diluted at 1:3000.



### Immunohistochemistry

**Image 2.** IHC-P Image Immunohistochemical analysis of paraffin-embedded human breast cancer, using P2X7, antibody at 1:250 dilution.



Western Blotting

**Image 3.** WB Image Sample(30 ug whole cell lysate) A:A431, 7.5% SDS PAGE antibody diluted at 1:3000