

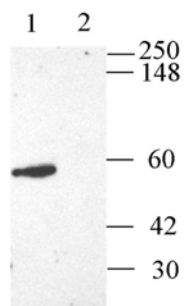
**RABBIT ANTI-P2X1 PURINERGIC RECEPTOR  
 AFFINITY PURIFIED  
 POLYCLONAL ANTIBODY**

<b>CATALOG NUMBER:</b>	AB5224-50UL	<b>QUANTITY:</b>	50 µL
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	0.6 mg/mL (after reconstitution)
<b>ALTERNATE NAMES:</b>	ATP Receptor	<b>EPITOPE:</b>	C-terminus

**BACKGROUND:** The P2X1 purinergic receptor is a homo- or heterooligomeric integral membrane protein that functions as a ligand-gated ion channel with high calcium permeability. P2X1 mediates interneuronal and neuromuscular synaptic transmission upon binding to its ligand, ATP. P2X1 may be involved in the induction of apoptosis in the presence of ATP by increasing intracellular calcium concentration.

**SPECIFICITY:** Recognizes the full-length P2X1 purinergic receptor protein. Does not cross react with other known proteins tested so far.

**APPLICATIONS:** Western blot: 1:200 using ECL on human platelet lysates.  
Immunohistochemistry on rat heart paraffin embedded section.  
Immunoprecipitation  
 Dilutions should be made using a carrier protein such as BSA (1-3%)  
*Optimal working dilutions must be determined by the end user.*



Western blotting of human platelets lysate (12 µg)  
 1. AB5224 (1:200)  
 2. AB5224 preincubated with the control peptide antigen

**SPECIES REACTIVITY:** Reacts with Human and Rat. Reactivity with other species has not been determined.

**IMMUNOGEN:** A purified peptide of rat P2X1 protein (amino acids 382-399 of Accession P47824; Owens, 1991; Valera, 1994).

**CONTROL:** **CONTROL ANTIGEN:** Included free of charge with the antibody is XX µg of control antigen (lyophilized powder). The stock solution of the antigen can be made up using 100 µL of sterile deionized water. For negative control, preincubate 1 µg of purified peptide with 1 µg



of antibody for one hour at room temperature. Optimal concentrations must be determined by the end user.

**FORMAT:**

Affinity purified immunoglobulin.

**PRESENTATION:**

Lyophilized from phosphate buffered saline, pH 7.4, containing 1% BSA and 0.05% sodium azide as a preservative. Reconstitute lyophilized material with 50  $\mu$ L of sterile deionized water. Centrifuge antibody preparation before use (10,000 xg for 5 min).

**STORAGE/HANDLING:**

Maintain lyophilized material at -20°C for up to 12 months after date of receipt. After reconstitution maintain at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles.

**REFERENCES:**

Valera, S. *et al.* (1994). A new class of ligand-gated ion channel defined by P2x receptor for extracellular ATP. *Nature* **371**:516-519.

Owens, G.P. *et al.* (1991). Identification of mRNAs associated with programmed cell death in immature thymocytes. *Mol. Cell. Biol.* **11**:4177-4188.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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