



## RABBIT ANTI-ADENOSINE A1 RECEPTOR AFFINITY PURIFIED POLYCLONAL ANTIBODY

- CATALOG NO:** AB1587P
- QUANTITY:** 50 µg
- CONCENTRATION:** 1.0 mg/mL
- SPECIFICITY:** Adenosine A1 receptor (A1R). Recognizes the 79 kDa and 39 kDa bands of in cortical membranes from rat, porcine and lamb. The 79 kDa band can be converted to 39 kDa band by agonist or antagonist treatment and could represent a A1R dimers.
- IMMUNOGEN:** Amino acid sequence corresponding to the 3rd extracellular domain (amino acids 163-176, GEPVIKAEFEKVIS) of the rat A1R gene.
- APPLICATIONS:** Immunohistochemistry: approximately 10 µg/mL on frozen tissue sections  
Western blot: 1-10 µg/mL (Chemiluminescence technique) Higher concentrations of the antibody may be necessary if colorimetric detection or milk-based antibody diluent are used.  
ELISA: 1:10,000-1:50,000 (50-100 ng A1R peptide (Cat. Number AG289)/well)  
*Optimal working dilutions must be determined by end user.*
- SPECIES REACTIVITIES:** Human, rat, pig and lamb.
- FORMAT:** Affinity purified immunoglobulin
- PRESENTATION:** Liquid in PBS with 0.1% BSA.
- STORAGE/HANDLING:** Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.
- REFERENCES:** Smith JA et. al. Immunolocalisation of adenosine A1 receptors in the rat Kidney. *Biochemical Pharmacology* (2001). **61**: 237-244.  
Lasley, Robert D. Activated Cardiac Adenosine A1 Receptors Translocate Out of Caveolae. *J. Biol. Chem.* (2000). **275**: 4417-4421.  
Mayne, M., Shepel, P. N., Jiang, Y., Geiger, J. D., Power, C. Dysregulation of Adenosine A1 Receptor-Mediated Cytokine Expression in Peripheral Blood Mononuclear Cells from Multiple Sclerosis Patients. *Annals of Neurology*. (1999). **45(5)**: 633-639.  
Bhat, SG Cisplatin up-regulates Adenosine A1 receptors in rat testes *Eur J. Pharmacol.* (1999). **382**, 35-43.  
Cooke, Helen J Activation of neuronal adenosine A1 receptors suppresses secretory reflexes in the guinea pig colon. *Am J Physiol Gastrointest Liver Physiol*. (1999). **276**: 451G-462G.



Nie Zhongzhen Oxidative Stress Increases A1 Adenosine Receptor Expression by Activating Nuclear Factor B. *Mol. Pharmacol.* (1998). **53**: 663-669.

**RELATED REFERENCES:** *Mol. Pharmacol.* (1990) **40**:1-7.  
*Ann. Rev. Pharmacol.* (1995) **35**:581-606.  
*J. Neurosci.* (1995) **42**:818-828.  
*Cardiovascular Res.* (1993) **27**:62-67.

**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.*

**FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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