

Certificate of Analysis

KO VALIDATED ✓

Anti-P2X2 Receptor Antibody

P2X purinoceptor 2, P2RX2

Cat #: APR-003 | **Host:** Rabbit | **Type:** Polyclonal | **Form:** Lyophilized**Applications:** ICC, IF, IFC, IHC, IP, WB | **Reactivity:** H, M, R**Application key:** CBE- Cell-based ELISA, FC- Flow cytometry, ICC- Immunocytochemistry, IE- Indirect ELISA, IF- Immunofluorescence, IFC- Indirect flow cytometry, IHC- Immunohistochemistry, IP- Immunoprecipitation, LCI- Live cell imaging, N- Neutralization, WB- Western blot**Species reactivity key:** H- Human, M- Mouse, R- Rat

For research purposes only, not for human use

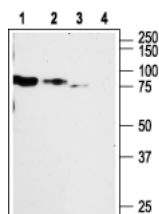
Properties

Immunogen	Peptide (C)SQQDSTSTDPKGLAQL, corresponding to amino acid residues 457-472 of rat P2X2 receptor (Accession P49653). Intracellular, C-terminus.
Homology	Guinea pig - 13/14 amino acid residues identical; human - 12/14 amino acid residues identical.
RRID	AB_2040054.
Purity	Affinity purified on immobilized antigen.
Form	Lyophilized powder. Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Isotype	Rabbit IgG.
Standard quality control of each lot	Western blot analysis.
Peptide confirmation	Confirmed by amino acid analysis and mass spectrometry.
Storage before reconstitution	The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.
Reconstitution	25 µl, 50 µl or 0.2 ml double distilled water (DDW), depending on the sample size.
Antibody concentration after reconstitution	0.9 mg/ml.
Storage after reconstitution	The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Applications

Western blot

Rat brain membranes, PC12 cells lysate (1:200).



Western blot analysis of differentiated (lanes 1 and 3) and non-differentiated (lanes 2 and 4) PC12 cell lysates:

1,2. **Anti-P2X2 Receptor Antibody (#APR-003)**, (1:200).

3,4. **Anti-P2X2 Receptor Antibody**, preincubated with P2X2 Receptor Blocking Peptide (#BLP-PR003).

Immunoprecipitation

Rat brain membranes (2 µg) ([Masin, M. et al. \(2006\) J. Biol. Chem. 281, 4100.](#)).

Immunohistochemistry

Rat neocortex frozen section. Mouse ilieum (1:200) ([Ren, J. et al. \(2003\) J. Physiol. 552, 809.](#)).

Immunocytochemistry

Cultured rat myeteric cells (1:200) ([Ohta, T. et al. \(2005\) Am. J. Physiol. 289, G935.](#)).

Indirect flow cytometry

Human CD4+ and ckit+ cells ([Kazakova, R.R. et al. \(2011\) Bull. Exp. Biol. Med. 151, 33.](#)).

The control antigen is not suitable for this application.

Last update: 02/01/2022